



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105

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Subject: Region 9 PRGs Table 2002 Update

From: Stanford J. Smucker, Ph.D.
Regional Toxicologist (SFD-8-B)
Technical Support Team

To: PRGs Table Users

With this cover letter, we announce the update to the Region 9 PRGs table for 2002. The PRGs table contains over 600 preliminary remediation goals (PRGs) for contaminants in soil, air, and tap water. Region 9 PRGs are risk-based concentrations that are intended to assist risk assessors and others in initial screening-level evaluations of environmental measurements.

As their name implies, Region 9 PRGs may also be viewed as preliminary cleanup goals for an individual chemical, but in this context, they are best viewed as dynamic and subject to change because they are generic and based on direct contact exposures which may not address site-specific conditions and/or indirect exposure pathways at sites (See Exhibit 1-1 in "Region 9 PRGs Table Users Guide/Technical Background Document"). Also for planning purposes, these human health based PRGs should always be considered in conjunction with ARAR-based PRGs (e.g. MCLs), ecological benchmarks, and "background" conditions before establishing a final cleanup level for a particular site.

You can find the PRGs 2002 table, InterCalc tables, "Region 9 PRGs Table Users Guide/Technical Background Document", and additional helpful toxicological and risk assessment information at:

<http://www.epa.gov/region09/waste/sfund/prg/>.

We view risk-based PRGs as "evergreen". Ongoing changes to the PRGs reflect continuing improvements in our scientific knowledge base and state-of-the-art approaches to risk assessment. In the new *Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites* (Supplemental SSL Guidance, EPA 2001a), two different soil ingestion rates are assumed for non-construction workers: 100 mg/day is assumed for outdoor workers whereas 50 mg/day is assumed for indoor workers. The default value of 100 mg/day for outdoor workers is also recommended by EPA's Technical Review Workgroup for Lead (TRW), and it reflects increased exposures to soils for outdoor workers relative to their indoor counterparts. For more on this, please see Section 4.1 of the "Region 9 PRGs Table Users Guide/Technical Background Document" or refer to the Supplemental SSL Guidance available at the following website:

<http://www.epa.gov/superfund/resources/soil/index.htm>

Because the Region 9 PRGs are generic and intended for screening sites early in the investigation process (often before site-specific information is available), we have chosen to use the 100 mg/day soil ingestion (i.e. outdoor worker) assumption to calculate industrial soil PRGs. Please note that previous issues of the Region 9 PRGs table assumed 50 mg/day soil ingestion rate for workers. This change in soil ingestion rates is reflected in a somewhat lower (more stringent) industrial soils PRG for many contaminants. The appropriateness of this assumption for a particular site may be evaluated when additional information becomes available regarding site conditions or site development.

In addition to changes in exposure factor assumptions, several chemicals have new or revised toxicity values that results in changes to the PRG calculations. To facilitate the users review, chemicals with new and revised toxicological criteria are presented in bold in the 2002 table and also listed here for convenience: **acetonitrile, benzyl chloride, boron, bromate, 1,3-butadiene, 1-butanol, butylbenzenes, cacodylic acid, cadmium (California State value), chloroform, chloronitrobenzenes, chrysene (California State value), cobalt, 1,2-dibromo-3-chloropropane (California State value), 1,1-dichloroethylene, diethylene glycol ethers, diethylformamide, dinitrobenzenes, di-n-octyl phthalate, diphenyl sulfone, ethylbenzene, HCH, hexachlorocyclopentadiene, kepone, lead (California State value), MTBE, 2-nitroaniline, carcinogenic PAHs, perchlorate, polychlorinated terphenyls, benzo(k)fluoranthene (California State value), propylbenzene, propylene glycol, quinoline, tetrachloroethylene, tetrahydrofuran, thiocyanate, 1,1,1-trichloroethane, trichloroethylene, 2,4,6-trichlorophenol, 1,2,3-trichloropropane, triphenylphosphine oxide, tris(2-chloroethyl) phosphate, vinyl chloride, and xylene.**

Also in this update to the "Region 9 PRGs Table User's Guide/Technical Background Document", we have added a brief discussion of special case chemicals for which an alternate approach was applied in the derivation of the Region 9 PRGs (Section 2.3). Increasingly, chemical-specific approaches are being used that do not lend themselves to a single PRG model. Special case chemicals that are discussed include: cadmium, chromium 6, lead, manganese, nitrate/nitrite, thallium, and vinyl chloride.

Finally it should be recognized by all that use the PRGs table that not all PRG values in the table are "created equal". For some chemicals, a robust data set exists upon which the toxicological criteria are based whereas for others, there may be relatively few studies that form the basis of the PRG calculation. Also, PRGs for some chemicals are based on withdrawn toxicity values or route-extrapolated values. Withdrawn and route-extrapolated numbers are shown in the table because we still need to deal with these contaminants during the long delays before replacement numbers are ready. Please consult with your toxicologist or agency risk assessor to best address potential uncertainties associated with chemical-specific PRGs, especially if the chemical is a risk driver at your site.

As with any risk-based tool, there exists the potential for misuse. We try to highlight potential problems in Section 3.8. However, it should be noted that the use of PRGs at a particular site becomes the responsibility of the user. It is recommended that the user verify the numbers with an agency toxicologist or risk assessor because the toxicity / exposure information in the table may contain errors or default assumptions that need to be refined based on further evaluation. If you find an error please send me a note via email at smucker.stan@epa.gov.

Key : SFO=Slope Factor oral, inhalation RfDo=Reference Dose oral, inhalation =RfIS h=HEAST n=NCEA x=Withdrawn o=Other EPA Source f=Route-extrapolation ca=Cancer PRG nc=Noncancer PRG ca*=Cancer PRG nc*=Noncancer PRG (where: nc < 10X ca) ca**=(where: nc < 10X ca) ca***=(where: nc < 10X ca) DAF=Dilution Attenuation Factor (See Section 2.1) CAS=Chemical Abstract Service
 ***=Non-Standard Method Applied (See Section 2.3 of the "Region 8 PRGs Table User's Guide") sat=Soil Saturation (See Section 4.5) max=Ceiling limit (See Section 2.1) CAS=Chemical Abstract Services

TOXICITY INFORMATION										CONTAMINANT										SOIL SCREENING LEVELS									
SFO 1/(mg/kg-d)		RfDo 1/(mg/kg-d)		SFI 1/(mg/kg-d)		RfDI 1/(mg/kg-d)		V _s skin abs. soils		V _o skin abs. soils		CAS No.		Residential Soil (mg/kg)		Industrial Soil (mg/kg)		Ambient Air (ug/m ³)		Tap Water (ug/l)		Ground Water DAF-1 (mg/kg)							
8.7E-03	i	4.0E-03	i	8.7E-03	r	4.0E-03	r	0	0.10	30560-19-1	Acephate			5.6E+01	ca**	2.0E+02	ca*	7.7E-01	ca*	7.7E+00	ca*								
				7.7E-03	i	2.6E-03	i	1	75-07-0	Acetaldehyde				1.1E+01	ca**	2.3E+01	ca*	8.7E-01	ca*	1.7E+00	ca								
2.0E-02	i			2.0E-02	r	0	0.10	34258-82-1	Acetochlor				1.2E+03	nc	1.2E+04	nc	7.3E+01	nc	7.3E+02	nc									
1.0E-01	i			1.0E-01	r	1	67-44-1	Acetone				1.6E+03	nc	6.0E+03	nc	3.7E+02	nc	6.1E+02	nc	1.6E+01	8.0E+01								
8.0E-04	h			8.0E-04	r	0	0.10	75-86-5	Acetone cyanohydrin				4.9E+01	nc	4.9E+02	nc	2.9E+00	nc	2.9E+01	nc									
1.7E-02	r			1.7E-02	i	1	75-05-8	Acetonitrile				4.2E+02	nc	1.8E+03	nc	6.2E+01	nc	1.0E+02	nc										
2.0E-02	h			2.0E-02	i	5.7E-06	i	1	107-02-8	Acrolein			1.0E-01	nc	3.4E-01	nc	2.1E-02	nc	4.2E-02	nc									
4.5E+00	i	2.0E-04	i	4.5E-00	i	2.0E-04	r	0	0.10	78-06-1	Acrylamide			1.1E-01	ca	3.8E-01	ca	1.5E-03	ca	1.5E-02	ca								
5.0E-01	i			2.9E-04	i	0	0.10	79-10-7	Acrylic acid				2.9E+04	nc	1.0E+05	max	1.0E+00	nc	1.8E+04	nc									
5.4E-01	i	1.0E-03	h	2.4E-01	i	5.7E-04	i	1	107-13-1	Acrylonitrile			2.1E-01	ca*	4.9E-01	ca*	2.8E-02	ca*	3.9E-02	ca*									
8.1E-02	h	1.0E-02	i	8.0E-02	r	1.0E-02	r	0	0.10	15972-86-8	Alachlor			6.0E+00	ca	2.1E+01	ca	8.4E-02	ca	8.4E-01	ca								
1.5E-01	i			1.5E-01	r	0	0.10	15984-45-5	Alar				9.2E+03	nc	9.2E+04	nc	5.5E+02	nc	5.5E+03	nc									
1.0E-03	i			1.0E-03	r	0	0.10	116-08-3	Aldicarb				6.1E+01	nc	6.2E+02	nc	3.7E+00	nc	3.6E+01	nc									
1.0E-03	i			1.0E-03	r	0	0.10	184-98-4	Aldicarb sulfone				6.1E+01	nc	6.2E+02	nc	3.7E+00	nc	3.6E+01	nc									
1.7E-01	i	3.0E-05	i	1.7E-01	i	3.0E-05	r	0	0.10	309-00-2	Aldrin			2.9E-02	ca*	1.0E-01	ca	3.9E-04	ca	4.0E-03	ca	5.0E-01	2.0E-02						
2.5E-01	i			2.5E-01	r	0	0.10	74223-84-8	Allyl				1.5E+04	nc	1.0E+05	max	9.1E+02	nc	9.1E+03	nc									
5.0E-03	i			5.0E-03	r	0	0.10	107-18-8	Allyl alcohol				3.1E+02	nc	3.1E+03	nc	1.8E+01	nc	1.8E+02	nc									
5.0E-02	h			2.9E-04	i	0	0.10	107-05-1	Allyl chloride				3.0E+03	nc	3.0E+04	nc	1.0E+00	nc	1.8E+03	nc									
1.0E+00	n			1.4E-03	n	0	0	7429-90-5	Aluminum				7.6E+04	nc	1.0E+05	max	5.1E+00	nc	3.6E+04	nc									
4.0E-04	i					0	0	20858-73-8	Aluminum phosphide				3.1E+01	nc	4.1E+02	nc	1.5E+01	nc	1.1E+01	nc									
3.0E-04	i			3.0E-04	r	0	0.10	87485-29-4	Amidro				1.8E+01	nc	1.8E+02	nc	1.1E+00	nc	1.1E+01	nc									
9.0E-03	i			9.0E-03	r	0	0.10	834-12-8	Ametryn				5.5E+02	nc	5.5E+03	nc	3.3E+01	nc	3.3E+02	nc									
7.0E-02	h			7.0E-02	r	0	0.10	591-27-5	m-Aminophenol				4.3E+03	nc	4.3E+04	nc	2.6E+02	nc	2.6E+03	nc									
2.0E-05	h			2.0E-05	r	0	0.10	604-24-5	4-Aminopyridine				1.2E+00	nc	1.2E+01	nc	7.3E-02	nc	7.3E-01	nc									
2.5E-03	i			2.5E-03	r	0	0.10	33088-81-1	Amiltazar				1.5E+02	nc	1.5E+03	nc	9.1E+00	nc	9.1E+01	nc									
				2.9E-02	i	78844-17			Ammonia						1.0E+02	nc	1.0E+02	nc	7.3E+03	nc									
2.0E-01	i				0	0.10	7773-08-0	Ammonium sulfate				1.2E+04	nc	1.0E+05	max	1.0E+00	nc	1.2E+01	ca*										
5.7E-03	i	7.0E-03	n	5.7E-03	r	2.8E-04	i	0	0.10	82-53-3	Aniline			8.5E+01	ca**	3.0E+02	ca*	1.0E+00	nc	1.2E+01	ca*								
						0	0	7440-36-0	Antimony and compounds				3.1E+01	nc	4.1E+02	nc	1.5E+01	nc	5.0E+00	3.0E+01									
4.0E-04	i					0	0	1314-80-8	Antimony pentoxide				3.9E+01	nc	5.1E+02	nc	1.8E+01	nc											
4.0E-04	h					0	0	28300-74-5	Antimony potassium tartrate				7.0E+01	nc	9.2E+02	nc	3.3E+01	nc											
4.0E-04	h					0	0	1332-31-8	Antimony tetroxide				3.1E+01	nc	4.1E+02	nc	1.5E+01	nc											
4.0E-04	h					0	0	1308-84-4	Antimony trioxide				3.1E+01	nc	4.1E+02	nc	2.1E-01	nc	1.5E+01	nc									
1.3E-02	i			1.3E-02	r	0	0.10	7415-24-5	Apollo				7.9E+02	nc	8.0E+03	nc	4.7E+01	nc	4.7E+02	nc									
2.5E-02	i	5.0E-02	h	2.5E-02	i	6.0E-02	r	0	0.10	140-57-8	Aramite			1.9E+01	ca	6.9E+01	ca	2.7E-01	ca	2.7E+00	ca								
3.0E-04	i					0	0.03	7440-38-2	Arsenic (nonscancer endpoint)				2.2E+01	nc	2.6E+02	nc													

Key : SFo=Cancer Slope Factor oral, inhalation, RDo=Reference Dose oral, inhalation i=NIRS n=NCEA x=Withdrawn o=Other EPA Source r=Route-extrapolation ca=Cancer PRG nc="where: nc < 100X ca" ca*="where: nc < 10X ca" ***Non-Standard Method Applied (See Section 2.3 of the "Region 9 PRGs Table User's Guide") sat=Soil Saturation (See Section 4.5) max=Soil Saturation Factor (See Section 2.6) C/S=Chemical Abated Services

TOXICITY INFORMATION		CONTAMINANT		PRELIMINARY REMEDIAL GOALS (PRGs)										SOIL SCREENING LEVELS	
SFo 1/(mg/kg-d)	RDo (mg/kg-d)	SFI 1/(mg/kg-d)	RDIs (mg/kg-d)	V	skin abs.	CAS No	Residential Soil (mg/kg)	Industrial Soil (mg/kg)	Ambient Air (ug/m ³)	Tap Water (ug/l)	DAF 20 (mg/kg)	DAF 1 (mg/kg)	"Migration to Ground Water"		
1.0E+00	i 3.0E-04	i 1.0E-01	i 0	0	0.03	7440-38-2	Arsenic (cancer endpoint)	3.9E-01	ca*	1.6E+00	ca	4.5E-04	ca	2.9E+01	1.0E+00
9.0E-03	i	9.0E-03	r 0.10	76578-12-6	Assure			5.5E+02	nc	5.5E+03	nc	5.2E-02	nc	3.3E+02	nc
5.0E-02	i	5.0E-02	r 0.10	3337-71-1	Asulam			3.1E+03	nc	3.1E+04	nc	1.8E+03	nc		nc
2.0E-01	h 3.5E-02	h 2.2E-01	r 0.10	1912-24-9	Atrazine			2.2E+00	ca	7.8E+00	ca	3.1E-02	ca	3.0E-01	ca
4.0E-04	i	4.0E-04	r 0.10	7175-14-2	Avermectin B1			2.4E+01	nc	2.5E+02	nc	1.5E+00	nc	1.5E+01	nc
1.1E-01	i	1.1E-01	i 0	0.10	103-33-3	Azobenzene		4.4E+00	ca	1.6E+01	ca	6.2E-02	ca	6.1E-01	ca
7.0E-02	i	1.4E-04	h 0	7440-38-3	Barium and compounds			5.4E+03	nc	6.7E+04	nc	5.2E-01	nc	2.6E+03	nc
4.0E-03	i	4.0E-03	r 0.10	114-28-1	Baygon			2.4E+02	nc	2.5E+03	nc	1.5E+01	nc	1.5E+02	nc
3.0E-02	i	3.0E-02	r 0.10	4312-43-3	Bayleton			1.8E+03	nc	1.8E+04	nc	1.1E+02	nc	1.1E+03	nc
2.5E-02	i	2.5E-02	r 0.10	68859-37-5	Baythroid			1.5E+03	nc	1.5E+04	nc	9.1E+01	nc	9.1E+02	nc
3.0E-01	i	3.0E-01	r 0.10	1881-14-1	Benefin			1.8E+04	nc	1.0E+05	max	1.1E+03	nc	1.1E+04	nc
5.0E-02	i	5.0E-02	r 0.10	17894-35-2	Benomyl			3.1E+03	nc	3.1E+04	nc	1.8E+02	nc	1.8E+03	nc
3.0E-02	i	3.0E-02	r 0.10	2505-98-0	Bentazon			1.8E+03	nc	1.8E+04	nc	1.1E+02	nc	1.1E+03	nc
1.0E-01	i	1.0E-01	r 0.10	100-32-7	Benzaldehyde			6.1E+03	nc	6.2E+04	nc	3.7E+02	nc	3.6E+03	nc
5.5E-02	i 3.0E-33	n 2.0E-02	i 1.7E-03	n 1	71-43-2	Benzene		6.0E-01	ca*	1.3E+00	ca*	2.3E-01	ca*	3.4E-01	ca*
2.3E+02	i 3.0E-33	i 2.3E+02	i 3.0E-03	r 0.10	92-37-5	Benzidine		2.1E-03	ca	7.5E-03	ca	2.9E-05	ca	2.9E-04	ca
4.0E+00	i	4.0E+00	r 0.10	65-85-0	Benzoic acid			1.0E+05	max	1.0E+05	max	1.5E+04	nc	1.5E+05	nc
1.3E-01	i	1.3E-01	r 0	3.0E-01	0	98-07-7	Benzothiophene	3.7E-02	ca	1.3E-01	ca	5.2E-04	ca	5.2E-03	ca
1.7E-01	i	2.9E-03	r 1.7E-01	r 2.0E-03	n 1	100-44-7	Benzyl chloride	8.9E-01	ca*	2.2E+00	ca	4.0E-02	ca	6.6E-02	ca
2.0E-03	i	8.4E+00	i 5.7E-06	i 0	7440-44-7	Beryllium and compounds		1.5E+02	nc	1.9E+03	ca**	8.0E-04	ca*	7.3E+01	3.0E+00
1.0E-04	i	1.0E-04	r 0.10	141-46-2	Bidrin			6.1E+00	nc	6.2E+01	nc	3.7E-01	nc	3.6E+00	nc
1.5E-02	i	1.5E-02	r 0.10	82857-44-3	Biophenthrin (Talstar)			9.2E+02	nc	9.2E+03	nc	5.5E+01	nc	5.5E+02	nc
5.0E-02	i	5.0E-02	r 1	92-52-4	1,1-Biphenyl			3.5E+02	sat	3.5E+02	sat	1.8E+02	nc	3.0E+02	no
1.1E-00	i	1.2E+00	i 1	111-44-4	Bis(2-chloroethyl)ether			2.1E-01	ca	5.5E-01	ca	5.8E-03	ca	9.8E-03	ca
7.0E-02	x 4.0E-02	i 3.5E-02	x 4.0E-02	r 1	38838-32-9	Bis(2-chloroisopropyl)ether		2.9E+00	ca	7.4E+00	ca	1.9E-01	ca	2.7E-01	ca
2.2E-02	i	2.2E-02	i 1	542-38-1	Bis(chloromethyl)ether			1.9E-04	ca	4.3E-04	ca	3.1E-05	ca	5.2E-05	ca
7.0E-02	x 4.0E-02	i 3.5E-02	x 4.0E-02	r 1	108-30-1	Bis(2-chloro-1-methylethyl)ether		2.9E+00	ca	7.4E+00	ca	1.9E-01	ca	2.7E-01	ca
1.4E-02	i 2.0E-02	i 1.4E-02	r 0.10	117-81-7	Bis(2-ethylhexyl)phthalate (DEHP)			3.5E+01	ca*	1.2E+02	ca	4.8E-01	ca	4.8E+00	ca
5.0E-02	i	5.0E-02	r 0	90-05-7	Bisphenol A			3.1E+03	nc	3.1E+04	nc	1.8E+02	nc	1.8E+03	nc
2.0E-01	i	5.7E-03	x 0	7440-42-8	Boron			1.6E+04	nc	1.0E+05	max	2.1E+01	nc	7.3E+03	nc
4.00E-03	i		2.0E-04	h 0	7637-07-2	Boron trifluoride					7.3E-01	nc			
2.0E-02	n	2.0E-03	n 1	108-98-1	Bromate			3.1E+02	nc	4.1E+03	nc	1.5E+02	nc		
6.2E-02	i 2.0E-02	i 6.2E-02	r 1	75-27-4	Bromobenzene			2.8E+01	nc	9.2E+01	nc	2.0E+01	nc	6.0E-01	3.0E-02

Key : SFo=Cancer Slope Factor oral, inhalation RfDo=Reference Dose oral, inhalation i=IRIS h=HEAT n=NCEA x=Windrow o=Other EPA Source r=Route-extrapolation ca=Cancer PRG nc=Noncancer PRG ca* (where: nc < 100X ca) ca** (where: nc < 10X ca)

++=Non-Standard Method Applied (See Section 2.3 of the Region 9 PRG Table User's Guide)

***=Soil Saturation (See Section 4.5) max= Ceiling limit (See Section 2.1) DAF=Dilution Attenuation Factor (See Section 2.5) CAS=Chemical Abstract Services

TOXICITY INFORMATION							CONTAMINANT							PRELIMINARY REMEDIAL GOALS (PRGs)							SOIL SCREENING LEVELS						
SFo 1/(mg/kg-d) ^a	RfDo (mg/kg-d)	SFI 1/(mg/kg-d)	RfDI (mg/kg-d)	V skin O abs. C soils	shin O abs. C soils	CAS No.	Residential Soil (mg/kg)	Industrial Soil (mg/kg)	Ambient Air (ug/m ³)	Tap Water (ug/l)	"Migration to Ground Water" DAF 1 (mg/kg)	DAF 20 (mg/kg)	"Migration to Ground Water" DAF 1 (mg/kg)	DAF 20 (mg/kg)	Residential Soil (mg/kg)	Industrial Soil (mg/kg)	Ambient Air (ug/m ³)	Tap Water (ug/l)	"Migration to Ground Water" DAF 1 (mg/kg)	DAF 20 (mg/kg)							
7.0E-03	i	2.0E-02	i	3.9E-03	i	2.0E-02	r	0	0.10	7525-2	Bromomform (tribromomethane)	6.2E+01	ca*	2.2E+02	ca*	1.7E+00	ca*	8.5E+00	ca*	8.0E-01	4.0E-02						
		1.1E-03	i		i	1.4E-03	i	1	7483-9	Bromoform (Methyl bromide)	3.9E+00	nc	1.3E+01	nc	5.2E+00	nc	8.7E+00	nc	2.0E-01	1.0E-02							
		5.0E-03	h			5.0E-03	r	0	0.10	21049-96-3	Bromophos	3.1E+02	nc	3.1E+03	nc	1.8E+01	nc	1.8E+02	nc								
		2.0E-02	i			2.0E-02	r	0	0.10	1689-84-5	Bromoxynil	1.2E+03	nc	1.2E+04	nc	7.3E+01	nc	7.3E+02	nc								
		2.0E-02	i			2.0E-02	r	0	0.10	1689-98-2	Bromoxynil octanoate	1.2E+03	nc	1.2E+04	nc	7.3E+01	nc	7.3E+02	nc								
		9.0E-01	r	9.0E-01	i		1	10699-40	1,3-Butadiene	6.5E-03	ca	1.4E-02	ca	6.9E-03	ca	1.1E-02	ca										
		1.0E-01	i			2.6E-03	n	0	0.10	71-36-3	1-Butanol	6.1E+03	nc	6.1E+04	nc	9.5E+00	nc	3.6E+03	nc	1.7E+01	9.0E-01						
		5.0E-02	i			5.0E-02	r	0	0.10	2008-41-5	Butylate	3.1E+03	nc	3.1E+04	nc	1.8E+02	nc	1.8E+03	nc								
		4.0E-02	n			4.0E-02	r	1	10451-8	n-Butylbenzene	2.4E+02	set	2.4E+02	set	1.5E+02	nc	2.4E+02	nc									
		4.0E-02	n			4.0E-02	r	1	1359-98	sec-Butylbenzene	2.2E+02	set	2.2E+02	set	1.5E+02	nc	2.4E+02	nc									
		4.0E-02	n			4.0E-02	r	1	98-08-6	tart-Butylbenzene	3.9E+02	set	3.9E+02	set	1.5E+02	nc	2.4E+02	nc									
		2.0E-01	i			2.0E-01	r	0	0.10	85-98-7	Butyl benzyl phthalate	1.2E+04	nc	1.0E+05	max	7.3E+02	nc	7.3E+03	nc	9.3E+02	8.1E+02						
		2.5E-01	h	3.0E-04	h	2.5E-01	r	0	0.10	85-70-1	Butylphthalyl butylglycolate	6.1E+04	nc	1.0E+05	max	3.7E+03	nc	3.6E+04	nc								
		5.0E-04	i	6.3E+00	i		0	0.10	75-60-5	Cacodylic acid	1.9E+00	ca*	6.9E+00	ca	2.7E-02	ca*	2.7E-01	ca*									
		3.8E-01	i	1.5E+01		5.0E-01	r	0	0.10	7440-43-9	Cadmium and compounds	3.7E+01	nc	4.5E+02	nc	1.1E-03	ca	1.8E+01	nc	8.0E+00	4.0E-01						
		8.8E-03	h	2.0E-03	i	8.8E-03	r	0	0.10	245-06-4	Capro lactam	5.7E+01	ca*	2.0E+02	ca*	7.8E-01	ca	4.5E-04	ca	1.8E-01	ca*						
		3.5E-03	h	1.3E-01	i	3.5E-03	r	0	0.10	133-06-2	Captan	1.4E+02	ca*	4.9E+02	ca	1.9E+00	ca	1.9E+01	ca								
		1.0E-01	i	1.1E-01	i	1.1E-01	r	0	0.10	63-26-2	Carbaryl	6.1E+03	nc	6.2E+04	nc	4.0E+02	nc	3.6E+03	nc								
		2.0E-02	h	2.0E-02	r		0	0.10	86-74-8	Carbazole	2.4E+01	ca	8.6E+01	ca	3.4E+00	ca	6.0E-01	3.0E-02									
		5.0E-03	i			5.0E-03	r	0	0.10	153-36-2	Carboturan	3.1E+02	nc	3.1E+03	nc	1.8E+01	nc	1.8E+02	nc								
		1.0E-01	i	2.0E-01	i	1.3E-01	r	0	0.10	75-15-0	Carbon disulfide	3.6E+02	nc	7.2E+02	set	7.3E+02	nc	1.0E+03	nc	3.2E+01	2.0E+00						
		1.3E-01	i	7.0E-04	i	7.0E-04	r	1	58-22-5	Carbon tetrachloride	2.5E-01	ca*	5.5E-01	ca*	1.3E-01	ca*	1.7E-01	ca*	7.0E-02	3.0E-03							
		4.0E-02	h			1.0E-02	r	0	0.10	55285-14-8	Carbosulfan	6.1E+02	nc	6.2E+03	nc	3.7E+01	nc	3.6E+02	nc								
		1.0E-01	i	1.0E-01	i	1.0E-01	r	0	0.10	5234-88-4	Carboxin	6.1E+03	nc	6.2E+04	nc	3.7E+02	nc	3.6E+03	nc								
		1.5E-02	i			1.5E-02	r	0	0.10	133-30-4	Chloramben	9.2E+02	nc	9.2E+03	nc	5.5E+01	nc	5.5E+02	nc								
		4.0E-01	h			4.0E-01	r	0	0.10	119-75-2	Chloranil	1.2E+00	ca	4.3E+00	ca	1.7E-02	ca	1.7E-01	ca								
		3.5E-01	i	5.0E-04	i	3.5E-01	i	2.0E-04	i	0	0.04	12786-03-6	Chlordane	1.6E+00	ca*	6.5E+00	ca*	1.9E-01	ca*	1.0E+01	5.0E-01						
		2.0E-02	i			2.0E-02	r	0	0.10	90982-32-4	Chlorimuron-ethyl	1.2E+03	nc	1.2E+04	nc	7.3E+01	nc	7.3E+02	nc								
		1.0E-01	i			5.71E-05	n			7782-50-5	Chlorine			2.1E-01	nc												
						5.7E-05	i			10049-04-4	Chlorine dioxide			2.1E-01	nc												
		2.0E-03	h			2.0E-03	r	0	0.10	79-11-8	Chloroacetic acid	1.2E+02	nc	1.2E+03	nc	7.3E+00	nc	7.3E+01	nc								
		8.6E-06	r			8.6E-06	i	1	532-27-4	2-Chloroacetophenone	3.3E-02	nc	1.1E-01	nc	3.1E-02	nc	5.2E-02	nc									
		4.0E-03	i			4.0E-03	r	0	0.10	108-47-8	4-Chloraniline	2.4E+02	nc	2.5E+03	nc	1.5E+01	nc	7.0E-01	3.0E-02								
		2.0E-02	i			1.7E-02	n	1	108-30-7	Chlorobenzene	1.5E+02	nc	5.3E+02	nc	6.2E+01	nc	1.1E+02	nc	1.0E+00	7.0E-02							

Key : SFo=Cancer Slope Factor oral, inhalation RIDo=Reference Dose oral, inhalation =IRS h=HEAST n=NCEA x=Withdrawn o=Other EPA Source r=Route extrapolation ca=Cancer PRG ca* (where nc < 10X ca) ca** (where nc < 10X ca) ca*** Soil Saturation (See Section 2.5) max=ceiling limit (See Section 2.1) DAF=Dilution Alteration Factor (See Section 2.5) CAS=Chemical Abstracts Service

TOXICITY INFORMATION		CONTAMINANT				PRELIMINARY REMEDIAL GOALS (PRGs)						SOIL SCREENING LEVELS									
SFo 1/(mg/kg-d)	RIDo (mg/kg-d)	SFI 1/(mg/kg-d)	RIDi (mg/kg-d)	V skin O abs. C soils	CAS No.	Residential Soil (mg/kg)	Industrial Soil (mg/kg)	Ambient Air (ug/m ³)	Tap Water (ug/l)	Migration to Ground Water DAF 1 (mg/kg)	DAF 20 (mg/kg)										
2.7E-01	h	2.0E-02	i	2.7E-01	h	2.0E-02	r	0	0.10	5.0E-5	Chlorobenzilate	1.8E+00	ca	6.4E+00	ca	2.5E-02	ca	2.5E-01	ca		
	2.0E-01	h		2.0E-01		2.0E-01	r	0	0.10	74.1E-3	p-Chlorbenzoic acid	1.2E+04	nc	1.0E+05	max	7.3E+02	nc	7.3E+03	nc		
	2.0E-02	h		2.0E-02		2.0E-02	r	0	0.10	98.5E-8	4-Chlorbenzotrifluoride	1.2E+03	nc	1.2E+04	nc	7.3E+01	nc	7.3E+02	nc		
	2.0E-02	h		2.0E-03	h	1		126.9E-9	2-Chloro-1,3-butadiene	3.6E+00	nc	1.2E+01	nc	7.3E+00	nc	1.4E+01	nc				
	4.0E-01	h		4.0E-01	r	1		109.6E-3	1-Chlorobutane	4.8E+02	sat	4.8E+02	sat	1.5E+03	nc	2.4E+03	nc				
	1.4E-01	r		1.4E+01	i	1		75.8E-3	1-Chloro-1,1-difluoroethane (HCFC-142b)	3.4E+02	sat	3.4E+02	sat	5.2E+04	nc	8.7E+04	nc				
	1.4E-01	r		1.4E+01	i	1		75.4E-6	Chlorodifluoromethane	3.4E+02	sat	3.4E+02	sat	5.1E+04	nc	8.5E+04	nc				
	2.0E-03	n	4.0E-01	2.0E-03	r	2.9E+00	i	1	75.0E-3	Chloroethane	3.0E+00	ca	6.5E+00	ca	2.3E+00	ca	4.6E+00	ca			
	1.0E-02	i		8.6E-04	n	1		67.6E-3	Chloroform	3.6E+00	canc	1.2E+01	canc	3.1E+00	canc	6.2E+00	canc	6.0E-01	3.0E-02		
	3.1E-02			1.9E-02		1					Chloroform "CAL-Modified PRG"	9.4E-01	ca	2.0E+00	ca	3.5E-01	ca	5.3E-01	ca		
	1.3E-02	h		6.3E-03	h	8.6E-02	n	1	74.8E-3	Chloromethane	1.2E+00	ca	2.6E+00	ca	1.1E+00	ca	1.5E+00	ca			
	5.8E-01	h		5.8E-01	r			95.6E-2	4-Chloro-2-methylaniline	8.4E-01	ca	3.0E+00	ca	1.2E+02	ca	1.2E+01	ca				
	4.6E-01	h		4.6E-01	r			0	0.10	316.9E-3	4-Chloro-2-methylaniline hydrochloride	1.1E+00	ca	3.7E+00	ca	1.5E+02	ca	1.5E+01	ca		
	8.0E-02	i		8.0E-02	r			0	0.10	91.5E-7	beta-Choronaphthalene	4.9E+03	nc	2.3E+04	nc	2.9E+02	nc	4.9E+02	nc		
	9.7E-03	h	1.0E-03	9.7E-03	r	8.0E-02	r	1	88.7E-3	o-Chloronitrobenzene	1.4E+00	nc*	4.5E+00	nc*	7.3E-02	nc**	1.5E+01	nc*			
	6.7E-03	h	1.0E-03	h	6.7E-03	r	1.7E-04	h	1	100.0E-5	p-Chloronitrobenzene	1.0E+01	nc**	3.7E+01	nc**	6.2E+01	nc*	6.2E+00	nc*		
	5.0E-03	i		5.0E-03	r	1		95.5E-8	2-Chlorophenol	6.3E+01	nc	2.4E+02	nc	1.8E+01	nc	3.0E+01	nc				
	2.9E-02	r		2.9E-02	h	1		75.2E-8	2-Chloropropane	1.7E+02	nc	5.9E+02	nc	1.0E+02	nc	1.7E+02	nc				
	1.1E-02	h	1.1E-02	1.1E-02	r	0	0.10	189.7E-5	Chlorothalonil	4.4E+01	ca*	1.6E+02	ca*	6.1E+01	ca*	6.1E+00	ca*				
	2.0E-02	i		1.0E-02	r	0	0.10	558.9E-13	Chlorpyrifos-methyl	6.1E+02	nc	6.2E+03	nc	3.7E+01	nc	3.6E+02	nc				
	5.0E-02	i		5.0E-02	r	0	0.10	84.0E-2	Chlorsulfuron	3.1E+03	nc	3.1E+04	nc	1.8E+02	nc	1.8E+03	nc				
	8.0E-04	h		8.0E-04	r	0	0.10	802.3E-56.4	Chlorothiophos	4.9E+01	nc	4.9E+02	nc	2.9E+00	nc	2.9E+01	nc				
	1.5E-00	i	4.2E+01	i		0		282.4E-2	Chlorpyrifos	2.1E+02	ca	4.5E+02	ca	1.6E-04	ca	1.1E+02	nc				
	3.0E-03	i		3.0E-03	r	0	0.10	1608.5E-31	Chromilum III	1.0E+06	max	1.0E+05	max	0.0E+00		5.5E+04	nc	3.8E+01	2.0E+00		
	2.00E-02	n	9.9E+00	n	5.7E-06	n	0	0.10	1856.0E-28.9	Chromilum VI+++	3.0E+01	ca**	6.4E+01	ca	2.3E-05	ca	1.1E+02	nc	3.8E+01	2.0E+00	
									7440.4E-4	Cobalt	9.0E+02	ca**	1.9E+03	ca*	6.9E-04	ca*	7.3E+02	nc			
									8007.4E-52	Coke Oven Emissions			3.1E-03	ca							
	4.00E-02	h				0		7440.5E-50.8	Copper and compounds	3.1E+03	nc	4.1E+04	nc	1.5E+03	nc						
	1.0E-01	i	1.0E+00	r	2.0E-03	r	0	0.10	123.7E-9	Crotonaldehyde	5.3E-03	ca	1.1E-02	ca	3.5E-03	ca	5.9E-03	ca			
	8.4E-01	h	2.0E-03	h	8.4E-01	r	1.1E-01	i	1	98.8E-28.8	Cumene (isopropylbenzene)	5.7E+02	nc	2.0E+03	nc	4.0E+02	nc	6.6E+02	nc		
	2.0E-02	i							2172.5E-46.2	Cyanazine	5.8E-01	ca	2.1E+00	ca	8.0E-03	ca	8.0E-02	ca			
	2.0E-02	i							57.1E-25	Cyanide (free)	1.2E+03	nc	1.2E+04	nc	7.3E+02	nc					
									74.9E-9	Cyanide (hydrogen)	1.1E+01	nc	3.5E+01	nc	3.1E+00	nc	6.2E+00	nc			

Key: SF=In-Cancer Slope Factor oral, Inhalation RfD=Dose Reference Dose oral, inhalation L=IURS n=NCEA x=Withdrawn o=Other EPA Source f=Route-extrapolation ca=Danger PRG nc=Noncancer PRG cat (where nc < 100X ca) ca*=Ceiling limit (See Section 4.5) max=Saturation (See Section 2.3 of the Region 9 PRGs Table User's Guide*) sat=Soil Saturation (See Section 2.1) DAE=Dilution Adjustment Factor (See Section 2.5) CAS=Chemical Abstracts Services

TOXICITY INFORMATION										CONTAMINANT										PRELIMINARY REMEDIAL GOALS (PRGs)										SOIL SCREENING LEVELS									
SFo 1/(mg/kg-d)	RfDo (mg/kg-d)	SFI 1/(mg/kg-d)	RIDi (mg/kg-d)	(mg/kg-d)	V	skin O abs C soils	CAS No.	Direct Contact Exposure Pathways ^a				Residential Soil (mg/kg)				Industrial Soil (mg/kg)				Ambient Air (ug/m ³)				Tap Water (ug/l)				Migration to Ground Water ^b											
								Residential Soil (mg/kg)	Industrial Soil (mg/kg)	Ambient Air (ug/m ³)	Tap Water (ug/l)	Residential Soil (mg/kg)	Industrial Soil (mg/kg)	Ambient Air (ug/m ³)	Tap Water (ug/l)	DAF 1 (mg/kg)	DAF 20 (mg/kg)	DAF 1 (mg/kg)	DAF 20 (mg/kg)	DAF 1 (mg/kg)	DAF 20 (mg/kg)	DAF 1 (mg/kg)	DAF 20 (mg/kg)	DAF 1 (mg/kg)	DAF 20 (mg/kg)	DAF 1 (mg/kg)	DAF 20 (mg/kg)												
4.0E-02	i		4.0E-02	r	1	480.19-5	Cyanogen	1.3E+02	nc	4.3E+02	nc	1.5E+02	nc	2.4E+02	nc																								
9.0E-02	i		9.0E-02	r	1	508.68-3	Cyanogen bromide	2.9E+02	nc	9.7E+02	nc	3.3E+02	nc	5.5E+02	nc																								
5.0E-02	i		5.0E-02	r	1	506.77-4	Cyanogen chloride	1.6E+02	nc	5.4E+02	nc	1.8E+02	nc	3.0E+02	nc																								
5.7E-00	r		5.7E+00	n	1	110.82-7	Cyclohexane	1.4E+02	sat	1.4E+02	max	1.0E+05	max	1.8E+04	nc	3.5E+04	nc																						
5.0E+00	i		5.0E+00	r	0	108.94-1	Cyclohexanone	1.0E+05	max	1.0E+05	max	1.0E+05	max	1.8E+05	nc	1.8E+05	nc																						
2.0E-01	i		2.0E-01	r	0	108.91-8	Cyclohexylamine	1.2E+04	nc	1.0E+05	max	7.3E+02	nc	7.3E+03	nc																								
5.0E-03	i		5.0E-03	r	0	108.89-8	Cyhalothrin/Karate	3.1E+02	nc	3.1E+03	nc	1.8E+01	nc	1.8E+02	nc																								
1.0E-02	i		1.0E-02	r	0	108.87-9	Cypermethrin	6.1E+02	nc	6.2E+03	nc	3.7E+01	nc	3.6E+02	nc																								
7.5E-03	i		7.5E-03	r	0	108.85-8	Cyromazine	4.6E+02	nc	4.6E+03	nc	2.7E+01	nc	2.7E+02	nc																								
1.0E-02	i		1.0E-02	r	0	108.83-1	Dacthal	6.1E+02	nc	6.2E+03	nc	3.7E+01	nc	3.6E+02	nc																								
3.0E-02	i		3.0E-02	r	0	108.80-9	Dalapon	1.8E+03	nc	1.8E+04	nc	1.1E+02	nc	1.1E+03	nc																								
2.5E-02	i		2.5E-02	r	0	108.78-8	Dantol	1.5E+03	nc	1.5E+04	nc	9.1E+01	nc	9.1E+02	nc																								
2.4E-01	i		2.4E-01	r	0	108.75-8	DDD	2.4E+00	ca	1.0E+01	ca	2.8E+01	ca	2.8E+01	ca	1.6E+01	8.0E+01																						
3.4E-01	i		3.4E-01	r	0	108.73-9	DDE	1.7E+00	ca	7.0E+00	ca	2.0E+02	ca	2.0E+01	ca	5.4E+01	3.0E+00																						
3.4E-01	i		3.4E-01	i	3.4E-01	5.0E-04	r	0	0.03	50.29-3	DDT	1.7E+00	ca*	7.0E+00	ca*	2.0E+02	ca*	2.0E+01	ca*	3.2E+01	2.0E+00																		
1.0E-02	i		1.0E-02	r	0	108.19-5	Decabromodiphenyl ether	6.1E+02	nc	6.2E+03	nc	3.7E+01	nc	3.6E+02	nc																								
4.0E-05	i		4.0E-05	r	0	108.04-8	Demeton	2.4E+00	nc	2.5E+01	nc	1.5E+01	nc	1.5E+00	nc																								
6.1E-02	h		6.1E-02	r	0	108.16-4	Diallate	8.0E+00	ca	2.8E+01	ca	1.1E+01	ca	1.1E+00	ca																								
9.0E-04	h		9.0E-04	r	0	108.34-5	Diazinon	5.5E+01	nc	5.5E+02	nc	3.3E+00	nc	3.3E+01	nc																								
4.0E-03	n		4.0E-03	r	1	132.84-8	Dibenzofuran	2.9E+02	nc	3.1E+03	nc	1.5E+01	nc	2.4E+01	nc																								
1.0E-02	i		1.0E-02	r	0	108.37-8	1,4-Dibromobenzeno	6.1E+02	nc	6.2E+03	nc	3.7E+01	nc	3.6E+02	nc																								
8.4E-02	i		8.4E-02	i	8.4E-02	2.0E-02	r	1	124.48-1	Dibromochloromethane	1.1E+00	ca	2.6E+00	ca	8.0E-02	ca	1.3E-01	ca	4.0E-01	2.0E-02																			
1.4E+00	h		5.7E-05	r	2.4E-03	x	5.7E-05	i	1	98.12-8	1,2-Dibromo-3-chloropropane	4.5E-01	ca**	2.0E+00	ca	4.8E-02	ca	1.6E-03	ca																				
7.0E+00			7.0E+00			1	98.12-8	"CAL-Modified PRG"	1.9E-02	ca	4.6E-02	ca	9.6E-04	ca	1.6E-03	ca																							
8.5E+01	i		5.7E-05	r	7.7E-01	i	5.7E-06	h	1	108.93-4	1,2-Dibromoethane	6.9E-03	ca	2.8E-02	ca*	8.7E-03	ca*	7.6E-04	ca	2.3E+03	2.7E+02																		
1.0E-01	i		1.0E-01	r	1.0E-01	r	0	0.10	84.74-2	Dibutyl phthalate	6.1E-03	nc	1.8E+04	nc	1.1E+02	nc	1.1E+03	nc																					
3.0E-02	i		3.0E-02	r	3.0E-02	r	0	0.10	1918.0-9	Dicamba	3.7E+02	sat	3.7E+02	sat	2.1E+02	nc	3.7E+02	nc	1.7E+01	9.0E+01																			
9.0E-02	i		9.0E-02	n	9.0E-02	h	1	95.50-1	1,2-Dichlorobenzene	1.8E-03	nc	6.3E+01	nc	3.3E+00	nc	5.5E+00	nc	5.5E+00	nc																				
2.4E-02	h		3.00E-02	n	2.2E-02	n	3.00E-02	i	1	108.48-7	1,4-Dichlorobenzene	3.4E+00	ca	7.9E+00	ca	3.1E-01	ca	5.0E-01	ca	2.0E+00	1.0E+01																		
4.5E-01	i		4.5E-01	r	0	0.10	91.94-1	3,3-Dichlorobenzidine	1.1E+00	ca	3.8E+00	ca	1.5E-02	ca	1.5E-01	ca	7.0E-03	3.0E-04																					
9.3E+00	r		9.3E+00	n	9.3E+00	r	0.10	90.98-2	4,4'-Dichlorobenzophenone	1.8E-03	nc	1.8E+04	nc	1.1E+02	nc	1.1E+03	nc																						
2.0E-01	i		2.0E-01	h	5.7E-02	h	1	784.41-0	1,4-Dichloro-2-butene	7.9E-03	ca	1.8E+02	ca	7.2E-04	ca	1.2E-03	ca																						
1.0E-01	h		1.0E-01	h	1.4E-01	h	1	75.71-3	Dichlorodifluoromethane	9.4E-01	nc	3.1E+02	nc	2.1E+02	nc	3.9E+02	nc																						
5.7E-03			5.7E-03		1	75.34-3	1,1-Dichloroethane	5.1E-02	nc	1.7E+03	nc	5.2E+02	nc	8.1E+02	nc	2.3E+01	1.0E+00																						

CAL-Modified PRG

Key : SFo=Site Factor oral, inhalation RDo=Reference Dose oral, inhalation IRS=IRIS n=NCEA x=HEAST o=Withdrawn o=Other EPA Source r=Route-extrapolation ca=Cancer PRGs nc=Noncancer PRGs where: nc < 100X ca) ca**=(where: nc < 10X ca)

***=Non-Standard Method Applied (See Section 2.3 of the Region 8 PRGs Table User's Guide) sat=Soil Saturation (See Section 4.5) max=Celing limit (See Section 2.1) DA=Dilution Attenuation Factor (See Section 2.5) CAS=Chemical Abstract Services

TOXICITY INFORMATION							PRELIMINARY REMEDIAL GOALS (PRGs)							SOIL SCREENING LEVELS				
							"Direct Contact Exposure Pathways"							"Migration to Ground Water"				
CONTAMINANT							Residential Soil (mg/kg)			Industrial Soil (mg/kg)		Ambient Air (ug/m ³)		Tap Water (ug/l)		DAF 1 (mg/kg)	DAF 20 (mg/kg)	
SF _o 1/(mg/kg-d)	RDo (mg/kg-d)	SFi 1/(mg/kg-d)	RI _i (mg/kg-d)	O abs. soils	C soils	CAS No.	V skin	n 1	h 1	107-00-2	1,2-Dichloroethane (EDC)	2.8E-01	ca*	7.4E-02	ca*	1.2E-01	ca*	
9.1E-02	i	3.0E-02	n	9.1E-02	i	1.4E-03	n	1			1,1-Dichloroethylene	1.2E+02	nc	4.1E+02	nc	3.4E+02	nc	
5.0E-02	i	5.7E-02	i	5.7E-02	i	75-55-4					1,2-Dichloroethylene (cis)	4.3E+01	nc	1.5E+02	nc	6.1E+01	nc	
1.0E-02	h	1.0E-02	r	1	1.0E-02	1	156-50-2				1,2-Dichloroethylene (trans)	6.9E+01	nc	2.3E+02	nc	7.3E+01	nc	
2.0E-02	i			2.0E-02	r	1	156-50-5				2,4-Dichlorophenol	1.8E+02	nc	1.8E+03	nc	1.1E+01	nc	
3.0E-03	i			3.0E-03	r	0	0.10	120-83-2			4-(2,4-Dichlorophenoxy)butyric Acid (2,4-DB)	4.9E+02	nc	4.9E+03	nc	2.9E+01	nc	
8.0E-03	i			8.0E-03	r	0	0.10	94-82-8			2,4-Dichlorophenoxyacetic Acid (2,4-D)	6.9E+02	nc	7.7E+03	nc	3.7E+02	nc	
1.0E-02	h	1.1E-03	r	6.8E-02	r	1.1E-03	i	1			3,4-E-01	ca*	7.4E-01	ca*	9.9E-02	ca*		
1.0E-01	i	3.0E-02	i	1.4E-02	i	5.7E-03	i	1			7.8E-01	ca	1.8E+00	ca	4.8E-01	ca		
3.0E-03	i			3.0E-03	r	0	0.10	616-23-9			2,3-Dichloropropanol	1.8E+02	nc	1.8E+03	nc	1.1E+01	nc	
2.9E-01	i	5.0E-04	i	2.9E-01	r	1.4E-04	i	0	0.10	82-73-7	Dichlorvos	1.7E+00	ca*	5.9E+00	ca*	2.3E+02	ca*	
4.4E-01	x			4.4E-01	r		0	0.10	115-32-2		Dicofol	1.1E+00	ca	3.9E+00	ca	1.5E-02	ca	
3.0E-02	h				5.7E-05	x	1	77-73-6			Dicyclopentadiene	5.4E-01	nc	1.8E+00	nc	2.1E-01	nc	
1.8E-01	i	5.0E-05	i	1.6E-01	i	5.0E-05	r	0	0.10	60-57-1	Dieidrin	3.0E-02	ca	1.1E-01	ca	4.2E-04	ca	
1.0E-02	h				5.7E-03	h	0	0.10	112-34-5		Diethylene glycol, monobutyl ether	6.1E+02	nc	6.12E+03	nc	2.1E+01	nc	
6.0E-02	h				8.6E-04	h	0	0.10	111-90-0		Diethylene glycol, monomethyl ether	3.7E+03	nc	3.7E+04	nc	3.1E+00	nc	
4.0E-03	h				4.0E-03	r	0	0.10	617-84-5		Diethylformamide	2.4E+02	nc	2.5E+03	nc	1.5E+01	nc	
1.2E-03	i	8.0E-01	i	1.2E-03	r	6.0E-01	r	0	0.10	103-22-1	Di(2-ethylhexyl)adipate	4.1E+02	ca	1.4E+03	ca	5.6E+00	ca	
8.0E-01	i				8.0E-01	r	0	0.10	84-68-2		Diethyl phthalate	4.9E+04	nc	1.0E+05	max	2.9E+03	nc	
4.7E-03	h				4.7E-03	r		0	0.10	58-53-1		Diethylstilbestrol	1.0E-04	ca	3.7E-04	ca	1.4E-06	ca
8.0E-02	i				8.0E-02	r	0	0.10	43222-48-8		Difenzocquat (Avenge)	4.9E-03	nc	4.9E-04	nc	2.9E+02	nc	
2.0E-02	i				2.0E-02	r	0	0.10	35387-38-5		Diflubenzuron	1.2E+03	nc	1.2E+04	nc	7.3E+01	nc	
1.1E-01	r				1.1E-01	i	1	75-37-6			1,1-Difluoroethane			4.2E+04	no	6.9E+04	no	
2.00E-02	n				2.00E-02	r	0.10	28553-12-0			Disisopropyl methylphosphonate	1.2E+03	nc	1.2E+04	nc	7.3E+01	nc	
8.0E-02	i				8.0E-02	r	0	0.10	1445-76-8		Dimethipin	4.9E+03	nc	4.9E+04	nc	2.9E+03	nc	
2.0E-02	i				2.0E-02	r	0	0.10	52290-84-7		Dimethoate	1.2E+03	nc	1.2E+04	nc	7.3E+01	nc	
2.0E-04	i				2.0E-04	r	0	0.10	60-51-5			1.2E+01	nc	1.2E+02	nc	7.3E+00	nc	
1.4E-02	h				1.4E-02	r		0	0.10	119-90-4		3,3'-Dimethoxybenzidine	3.5E+01	ca	1.2E+02	ca	4.8E+00	ca
5.7E-08	r				5.7E-08	x	1	124-40-3			Dimethylamine	6.7E-02	nc	2.5E-01	nc	3.5E-02	nc	
2.0E-03	i				2.0E-03	r	0	0.10	121-68-7		N,N-Dimethylaniline	1.2E+02	nc	1.2E+03	nc	7.3E+01	nc	
7.5E-01	h				7.5E-01	r		0	0.10	95-58-1		2,4-Dimethylaniline	6.5E-01	ca	2.3E+00	ca	9.0E-03	ca
5.6E-01	h				5.8E-01	r		0	0.10	21436-98-4		2,4-Dimethylaniline hydrochloride	8.4E-01	ca	3.0E+00	ca	1.2E-02	ca
6.2E-00	h				9.2E-00	r		0	0.10	119-63-7		3,3'-Dimethylbenzidine	5.3E-02	ca	1.9E-01	ca	7.3E-03	ca
1.1E-01	h				8.6E-03	i	0	0.10	68-12-2		N,N-Dimethylformamide	6.1E+03	nc	6.12E+04	nc	3.1E+01	nc	
1.0E-03	n				1.0E-03	r	0	0.10	122-09-8		Dimethylphenethylamine	6.1E+01	nc	6.2E+02	nc	3.6E+01	nc	
2.0E-02	i				2.0E-02	r	0	0.10	105-67-9		2,4-Dimethylphenol	1.2E+03	nc	1.2E+04	nc	7.3E+01	nc	

9.0E+00

4.0E-01

Key : SFo=Cancer Slope Factor oral, inhalation RfDo=Reference Dose oral, inhalation =RfS =HEAST =n=NEA =x=Withdrawn o=Other EPA Source =Route=Extrapolation ca=Generic PRG nc=NonCancer PRG n=Chemical Abstract Services +++=Non-Standard Method Applied (See Section 2.3 of the "Region 9 PRGs Table User's Guide") sa=Soil Saturation (See Section 4.5) max= ceiling tml (See Section 2.1) DAF=Dilution Attenuation Factor (See Section 2.5) CAS=Chemical Abstract Services

TOXICITY INFORMATION				CONTAMINANT				PRELIMINARY REMEDIAL GOALS (PRGS)				SOIL SCREENING LEVELS			
SFo 1/(mg/kg-d)	RfDo (mg/kg-d)	SFi 1/(mg/kg-d)	RD _i (mg/kg-d)	V skin abs. soils	C abs. soils	CAS No.	Residential Soil (mg/kg)	Industrial Soil (mg/kg)	Ambient Air (ug/m ³)	Tap Water (ug/l)	"Migration to Ground Water" DAF 1 (mg/kg)	"Migration to Ground Water" DAF 20 (mg/kg)	"Migration to Ground Water" DAF 1 (mg/kg)		
6.0E-04 i		6.0E-04 r	0 0 0.10	576-26-1	2,6-Dimethylphenol	3.7E+01 nc	3.7E+02 nc	2.2E+00 nc	2.2E+01 nc	2.2E+00 nc	2.2E+01 nc	2.2E+00 nc	2.2E+01 nc	2.2E+00 nc	
1.0E-03 i		1.0E-03 r	0 0 0.10	95-65-8	3,4-Dimethylphenol	6.1E+01 nc	6.2E+02 nc	3.7E+00 nc	3.6E+01 nc	3.7E+00 nc	3.6E+01 nc	3.6E+00 nc	3.6E+01 nc	3.6E+00 nc	
1.0E+01 h		1.0E+01 r	0 0 0.10	131-11-3	Dimethyl phthalate	1.0E+05 max	1.0E+05 max	3.7E+04 nc	3.7E+04 nc	3.7E+04 nc	3.6E+05 nc	3.7E+04 nc	3.7E+04 nc	3.6E+05 nc	
1.0E-01 i		1.0E-01 r	0 0 0.10	120-61-6	Dimethyl terephthalate	6.1E+03 nc	6.2E+04 nc	3.7E+02 nc	3.6E+03 nc	3.7E+02 nc	3.6E+03 nc	3.6E+03 nc	3.7E+02 nc	3.6E+03 nc	
2.0E-03 i		2.0E-03 r	0 0 0.10	131-38-5	4,6-Dinitro-o-cyclohexyl phenol	1.2E+02 nc	1.2E+03 nc	7.3E+00 nc	7.3E+01 nc	7.3E+00 nc	7.3E+01 nc	7.3E+00 nc	7.3E+01 nc	7.3E+00 nc	
1.0E-04 h		1.0E-04 r	0 0 0.10	526-29-0	1,2-Dinitrobenzene	6.1E+00 nc	6.2E+01 nc	3.7E+01 nc	3.6E+00 nc	3.7E+01 nc	3.6E+00 nc	3.6E+00 nc	3.7E+01 nc	3.6E+00 nc	
1.0E-04 i		1.0E-04 r	0 0 0.10	86-85-0	1,3-Dinitrobenzene	6.1E+00 nc	6.2E+01 nc	3.7E+01 nc	3.6E+00 nc	3.7E+01 nc	3.6E+00 nc	3.6E+00 nc	3.7E+01 nc	3.6E+00 nc	
1.0E-04 h		1.0E-04 r	0 0 0.10	100-25-4	1,4-Dinitrobenzene	6.1E+00 nc	6.2E+01 nc	3.7E+01 nc	3.6E+00 nc	3.7E+01 nc	3.6E+00 nc	3.6E+00 nc	3.7E+01 nc	3.6E+00 nc	
2.0E-03 i		2.0E-03 r	0 0 0.10	51-28-5	2,4-Dinitrophenoil	1.2E+02 nc	1.2E+03 nc	7.3E+00 nc	7.3E+01 nc	7.3E+00 nc	7.3E+01 nc	7.3E+00 nc	7.3E+01 nc	7.3E+00 nc	
6.8E-01 i	6.8E-01 r	0 0 0.10	2831-14-6	Dinitrotoluene mixture	7.2E-01 ca	2.5E+00 ca	9.9E-03 ca	9.9E-02 ca	9.9E-02 ca	9.9E-02 ca	9.9E-02 ca	9.9E-02 ca	9.9E-02 ca	9.9E-02 ca	
2.0E-03 i	2.0E-03 r	2.0E-03 r	0 0 0.10	121-14-2	2,4-Dinitrotoluene (see DNT mixture for "ca")	1.2E+02 nc	1.2E+03 nc	7.3E+00 nc	7.3E+01 nc	7.3E+00 nc	7.3E+01 nc	7.3E+00 nc	7.3E+01 nc	7.3E+00 nc	
1.0E-03 h	1.0E-03 r	1.0E-03 r	0 0 0.10	86-20-2	2,6-Dinitrotoluene (see DNT mixture for "ca")	6.1E+01 nc	6.2E+02 nc	3.7E+00 nc	3.6E+01 nc	3.7E+00 nc	3.6E+01 nc	3.6E+00 nc	3.7E+00 nc	3.6E+00 nc	
1.0E-03 i		1.0E-03 r	0 0 0.10	85-85-7	Dinoseb	6.1E+01 nc	6.2E+02 nc	3.7E+00 nc	3.6E+01 nc	3.7E+00 nc	3.6E+01 nc	3.6E+00 nc	3.7E+00 nc	3.6E+00 nc	
4.0E-02 h	4.0E-02 r	4.0E-02 r	0 0 0.10	117-84-0	dlin-Octyl phthalate	2.4E+03 nc	2.5E+04 nc	1.5E+02 nc	1.5E+03 nc	1.5E+02 nc	1.5E+03 nc	1.5E+02 nc	1.5E+03 nc	1.5E+02 nc	
1.1E-02 i	1.1E-02 r	1.1E-02 r	0 0 0.10	123-91-1	1,4-Dioxane	4.4E+01 ca	1.6E+02 ca	6.1E+01 ca	6.1E+01 ca	6.1E+01 ca	6.1E+01 ca	6.1E+01 ca	6.1E+01 ca	6.1E+01 ca	
1.5E+05 h	1.5E+05 h	3.0E-02 r	0 0 0.03	1746-01-6	Dioxin (2,3,7,8-TCDD)	3.9E-06 - ca	1.6E-05 ca	4.5E-08 ca	4.5E-07 ca	4.5E-08 ca	4.5E-07 ca	4.5E-08 ca	4.5E-07 ca	4.5E-08 ca	
3.0E-02 i	3.0E-02 r	2.5E-02 r	0 0 0.10	122-38-4	Diphenamid	1.8E+03 nc	1.8E+04 nc	1.1E+02 nc	1.1E+03 nc	1.1E+02 nc	1.1E+03 nc	1.1E+02 nc	1.1E+03 nc	1.1E+02 nc	
2.5E-02 i		2.5E-02 r	0 0 0.10	122-38-4	Diphenylamine	1.5E+03 nc	1.5E+04 nc	9.1E+01 nc	9.1E+02 nc	9.1E+01 nc	9.1E+02 nc	9.1E+01 nc	9.1E+02 nc	9.1E+01 nc	
3.00E-04 n	3.00E-04 r	3.00E-04 r	0 0 0.10	74-31-7	N,N'-Diphenyl-1,4-benzenediamine (DPPD)	1.8E+01 nc	1.8E+02 nc	1.1E+00 nc	1.1E+01 nc	1.1E+00 nc	1.1E+01 nc	1.1E+00 nc	1.1E+01 nc	1.1E+00 nc	
8.0E-01 i	7.7E-01 i	3.0E-03 r	0 0 0.10	122-86-7	1,2-Diphenylhydrazine	6.1E+01 ca	2.2E+00 ca	8.7E-03 ca	8.4E-02 ca	8.7E-03 ca	8.4E-02 ca	8.7E-03 ca	8.4E-02 ca	8.7E-03 ca	
3.0E-03 n		3.0E-03 r	0 0 0.10	127-63-9	Diphenyl sulfone	1.8E+02 nc	1.8E+03 nc	1.1E+01 nc	1.1E+02 nc	1.1E+01 nc	1.1E+02 nc	1.1E+01 nc	1.1E+02 nc	1.1E+01 nc	
2.2E-03 i		2.2E-03 r	0 0 0.10	85-00-7	Diquat	1.3E+02 nc	1.4E+03 nc	8.0E+00 nc	8.0E+01 nc	8.0E+00 nc	8.0E+01 nc	8.0E+00 nc	8.0E+01 nc	8.0E+00 nc	
8.6E+00 h	8.6E+00 r	8.6E+00 r	0 0 0.10	1937-37-7	Direct black 38	5.7E-02 ca	2.0E+01 ca	7.8E-04 ca	7.8E-03 ca	7.8E-04 ca	7.8E-03 ca	7.8E-04 ca	7.8E-03 ca	7.8E-04 ca	
8.1E+00 h	8.1E+00 r	8.1E+00 r	0 0 0.10	2602-46-2	Direct blue 6	6.0E-02 ca	2.1E+01 ca	8.3E-04 ca	8.3E-03 ca	8.3E-04 ca	8.3E-03 ca	8.3E-04 ca	8.3E-03 ca	8.3E-04 ca	
9.3E+00 h	9.3E+00 r	4.0E-05 i	0 0 0.10	16071-86-6	Direct brown 95	5.2E-02 ca	1.9E-01 ca	7.2E-04 ca	7.2E-03 ca	7.2E-04 ca	7.2E-03 ca	7.2E-04 ca	7.2E-03 ca	7.2E-04 ca	
1.0E-02 i		1.0E-02 r	0 0 0.10	268-04-4	Disulfoton	2.4E+00 nc	2.5E+01 nc	1.5E-01 nc	1.5E+00 nc	1.5E-01 nc	1.5E+00 nc	1.5E-01 nc	1.5E+00 nc	1.5E-01 nc	
2.0E-03 i		2.0E-03 r	0 0 0.10	330-54-1	Diuron	6.1E+02 nc	6.2E+03 nc	3.7E+01 nc	3.6E+02 nc	3.7E+01 nc	3.6E+02 nc	3.7E+01 nc	3.6E+02 nc	3.7E+01 nc	
4.0E-03 i		4.0E-03 r	0 0 0.10	2439-10-3	Dodine	2.4E+02 nc	2.5E+03 nc	1.5E+01 nc	1.5E+02 nc	1.5E+01 nc	1.5E+02 nc	1.5E+01 nc	1.5E+02 nc	1.5E+01 nc	
2.0E-01 n			0 0 0.10	7429-91-6	Dysprosium	1.6E+04 nc	1.0E+05 nc	9.0E+00 nc	9.0E+01 nc	9.0E+00 nc	9.0E+01 nc	9.0E+00 nc	9.0E+01 nc	9.0E+00 nc	
6.0E-03 i		6.0E-03 r	0 0 0.10	116-29-7	Endosulfan	3.7E+02 nc	3.7E+03 nc	2.2E+01 nc	2.2E+02 nc	2.2E+01 nc	2.2E+02 nc	2.2E+01 nc	2.2E+02 nc	2.2E+01 nc	
2.0E-02 i		2.0E-02 r	0 0 0.10	145-73-3	Endothal	1.2E+03 nc	1.2E+04 nc	7.3E+01 nc	7.3E+02 nc	7.3E+01 nc	7.3E+02 nc	7.3E+01 nc	7.3E+02 nc	7.3E+01 nc	
3.0E-04 i		3.0E-04 r	0 0 0.10	72-20-8	Endrin	1.8E+01 nc	1.8E+02 nc	1.1E+00 nc	1.1E+01 nc	1.1E+00 nc	1.1E+01 nc	1.1E+00 nc	1.1E+01 nc	1.1E+00 nc	
0.9E-03 i	2.0E-03 h	4.2E-03 h	2.0E-04 i	1	106-89-8	Epichlorohydrin	7.6E+00 nc	2.6E+01 nc	1.0E+00 nc	2.0E+00 nc	1.0E+00 nc	2.0E+00 nc	1.0E+00 nc	2.0E+00 nc	1.0E+00 nc
6.7E-03 r		5.7E-03 r	0 0 0.10	106-88-7	1,2-Epoxybutane	3.5E+02 nc	3.5E+03 nc	2.1E+01 nc	2.1E+02 nc	2.1E+01 nc	2.1E+02 nc	2.1E+01 nc	2.1E+02 nc	2.1E+01 nc	
2.5E-02 i		2.5E-02 r	0 0 0.10	750-94-4	EPIC (S-Ethyl dipropylthiocarbamate)	1.5E+03 nc	1.5E+04 nc	9.1E+01 nc	9.1E+02 nc	9.1E+01 nc	9.1E+02 nc	9.1E+01 nc	9.1E+02 nc	9.1E+01 nc	

Key : SFo=|Cancer Slope Factor oral, Inhalation RTDo|=Reference Dose oral, Inhalation |IRIS|=HEAST n=NCEA w=Withdrawn o=Other EPA Source r=Route-extrapolation ca*=Cancer PRG nc=Noncancer PRG ca (where nc < 100X ca) ca* (where nc < 10X ca)
 ***=Non-Standard Method Applied (See Section 2.1 of the "Region 9 PRGs Table User's Guide") set=Soil Saturation (See Section 1.5) max=Ceiling limit (See Section 2.1) Daf=Dilution Attenuation Factor (See Section 2.5) CAS=Chemical Abstracts Service

TOXICITY INFORMATION		CONTAMINANT			PRELIMINARY REMEDIAL GOALS (PRGs)						SOIL SCREENING LEVELS					
SFo 1/(mg/kg-d)	RTDo (mg/kg-d)	SFI 1/(mg/kg-d)	V abs.	skin C soils	CAS No.	Residential Soil (mg/kg)	Industrial Soil (mg/kg)	Ambient Air (ug/m^3)	Tap Water (ug/l)	Migration to Ground Water ^a	DAF 1 (mg/kg)					
5.0E-03	i		5.0E-03	r	0	0	1887237.0	Ethephon (2-chloroethyl phosphonic acid)	3.1E+02	nc	3.1E+03	nc	1.8E+02	nc		
5.0E-04	i		5.0E-04	r	0	0	583-12-2	Ethionine	3.1E+01	nc	3.1E+02	nc	1.8E+01	nc		
4.0E-01	h		5.7E-02	i	0	0	110-30-5	2-Ethoxyethanol	2.4E+04	nc	1.0E+05	max	2.1E+02	nc		
3.0E-01	h		3.0E-01	r	0	0	111-15-9	2-Ethoxyethanol acetate	1.8E+04	nc	1.0E+05	max	1.1E+03	nc		
9.0E-01	i		9.0E-01	r	1	141-78-6	Ethyl acetate	1.9E+04	nc	3.7E+04	set	3.3E+03	nc			
4.0E-02	h		4.8E-02	r	1	140-38-5	Ethyl acrylate	2.1E-01	ca	4.5E-01	ca	1.4E-01	ca			
3.85E-03	r	1.0E-01	3.85E-03	n	2.8E-01	i	100-41-4	Ethylbenzene	8.9E+00	ca	2.0E+01	ca	1.7E+00	ca		
2.9E-03	n	4.0E-01	2.8E-03	r	2.8E+00	i	75-00-3	Ethyl chloride	3.0E+00	ca	6.5E+00	ca	2.3E+00	ca		
3.0E-01	h		3.0E-01	r	0	0	103-78-4	Ethylene cyanohydrin	1.8E+04	nc	1.0E+05	max	1.1E+03	nc		
2.0E-02	h		2.0E-02	r	0	0	107-16-3	Ethylene diamine	1.2E+03	nc	1.2E+04	nc	7.3E+01	ca		
2.0E+00	i		2.0E+00	r	0	0	107-21-1	Ethylene glycol	1.0E+05	max	1.0E+05	max	7.3E+03	nc		
5.0E-01	i		3.7E+00	i	0	0	111-76-2	Ethylene glycol, monobutyl ether	3.1E+04	nc	1.0E+05	max	1.4E+04	nc		
1.0E+00	h		3.5E-01	h	1	75-21-8	Ethylene oxide	1.4E-01	ca	3.4E-01	ca	1.9E-02	ca			
1.1E-01	h	8.0E-05	i	1.1E-01	r	8.0E-05	r	0	0	9845-57	Ethylene thiourea (ETU)	4.4E+00	ca**	1.6E+01	ca**	
2.0E-01	i		2.0E-01	r	1	60-20-7	Ethyl ether	1.8E+03	set	1.8E+03	set	7.3E+02	nc			
9.0E-02	h		9.0E-02	r	1	97-63-2	Ethyl methacrylate	1.4E+02	set	1.4E+02	set	3.3E+02	nc			
1.0E-05	i		1.0E-05	r	0	0	2104-84-5	Ethyl p-nitrophenyl phenylphosphorothioate	6.1E-01	nc	6.2E+00	nc	5.5E+02	nc		
3.0E+00	i		3.0E+00	r	0	0	84-72-0	Ethylphthalyl ethyl glycolate	1.0E+05	max	1.0E+05	max	1.1E+04	nc		
8.0E-03	i		8.0E-03	r	0	0	10200-48-0	Express	4.9E+02	nc	4.9E+03	nc	2.9E+01	nc		
2.5E-04	i		2.5E-04	r	0	0	22224-82-6	Fenamiphos	1.5E+01	nc	1.5E+02	nc	9.1E-01	nc		
1.3E-02	i		1.3E-02	r	0	0	2184-17-2	Fluometuron	7.9E+02	nc	8.0E+03	nc	4.7E+01	nc		
6.0E-02	i		6.0E-02	0	0	16864-48-8	Fluoride	3.7E+03	nc	3.7E+04	nc	2.2E+03	nc			
8.0E-02	i		8.0E-02	r	0	0	59758-80-4	Fluoridone	4.9E+03	nc	4.9E+04	nc	2.9E+03	nc		
2.0E-02	i		2.0E-02	r	0	0	5825-91-3	Flurprimidol	1.2E+03	nc	1.2E+04	nc	7.3E+02	nc		
6.0E-02	i		6.0E-02	r	0	0	68332-86-5	Fluolanol	3.7E+03	nc	3.7E+04	nc	2.2E+03	nc		
1.0E-02	i		1.0E-02	r	0	0	69406-94-5	Fluvalinate	6.1E+02	nc	6.2E+03	nc	3.7E+01	nc		
3.5E-03	i	1.0E-01	3.5E-03	r	1.0E-01	r	0	0	133-07-3	Folpet	1.4E+02	ca*	4.9E+02	ca	1.9E+01	ca
1.9E-01	i		1.9E-01	r	0	0	72178-02-0	Fomeconen	2.6E+00	ca	9.1E+00	ca	3.5E-02	ca		
2.0E-03	i		2.0E-03	r	0	0	944-22-9	Fonofos	9.2E+03	nc	1.0E+05	nc	1.5E-01	ca		
1.5E-01	i	4.0E-02	i	0	0	50-00-0	Formaldehyde	1.2E+02	nc	1.2E+03	nc	7.3E+01	nc			
2.0E+00	h		2.0E+00	r	0	0	64-16-8	Formic Acid	1.0E+05	max	1.0E+05	max	7.3E+03	nc		
3.0E+00	i		3.0E+00	r	0	0	39148-24-8	Fosetyl-al	1.0E+05	max	1.0E+05	max	1.1E+05	nc		
3.0E+01	i		6.6E+00	h	1	76-15-1	Freon 113	5.6E+03	set	5.6E+03	set	3.1E+04	nc			
1.0E-03	i		1.0E-03	r	1	110-00-9	Furan	2.5E+00	nc	8.5E+00	nc	3.7E+00	nc			
3.0E-03	i		3.8E+00	r	0	0	67-45-8	Furazolidone	1.3E-01	ca	4.5E-01	ca	1.8E-03	ca		
3.0E-03	i		1.4E-02	h	0	0	98-01-1	Furfural	1.8E+02	nc	1.8E+03	nc	5.2E+01	nc		

Key : SFo=Slope Factor oral, inhalation RfDo=Reference Dose oral, inhalation f=IRIS h=HEAT n=NCEA x=Withdrawn or Other EPA Source r=Route-extrapolation ca=Cancer PRG nc=Noncancer PRG ca* (Where: nc < 10X ca) ca** (Where: nc < 10X ca) DAF=Dilution Attenuation Factor (See Section 2.1) DAF-1=Soil Saturation (See Section 4.5); max=Calming limit (See Section 2.1) DAF-20=Chemical Abstract Services

+++=Non-Standard Method Applied (See Section 2.3 of the "Region 9 PRGs Table User's Guide") *at=Soil Saturation (See Section 2.3 of the "Region 9 PRGs Table User's Guide")

TOXICITY INFORMATION				CONTAMINANT				PRELIMINARY REMEDIAL GOALS (PRGs)				SOIL SCREENING LEVELS					
SFo 1/(mg/kg-d)	RfDo (mg/kg-d)	SFi 1/(mg/kg-d)	RfDi (mg/kg-d)	V skin	skin	C abs.	CAS No.	Residential Soil (mg/kg)	Industrial Soil (mg/kg)	Ambient Air (ug/m ³)	Tap Water (ug/l)	"Migration to Ground Water" DAF-20 (mg/kg)	"Migration to Ground Water" DAF-1 (mg/kg)				
5.0E+01	h	5.0E+01	r	0	0.10	531-82-8	Furium	9.7E-03	ca	3.4E-02	ca	1.3E-04	ca	1.3E-03	ca		
3.0E-02	i	3.0E-02	r	0	0.10	60580-05-0	Furmycyclo	1.6E+01	ca	5.7E+01	ca	2.2E+00	ca	2.2E+00	ca		
4.0E-04	i	4.0E-04	r	0	0.10	77182-82-2	Glufosinate ammonium	2.4E+01	nc	2.5E+02	nc	1.5E+01	nc	1.5E+01	nc		
4.0E-04	i	2.9E-04	h	0	0.10	765-34-4	Glycidaldehyde	2.4E+01	nc	2.5E+02	nc	1.0E+00	nc	1.5E+01	nc		
1.0E-01	i	1.0E-01	r	0	0.10	107-133-6	Glyphosate	6.1E+03	nc	6.2E+04	nc	3.7E+02	nc	3.6E+03	nc		
5.0E-05	i	5.0E-05	r	0	0.10	69808-40-2	Haloxyp-methyl	3.1E+00	nc	3.1E+01	nc	1.8E-01	nc	1.8E+00	nc		
1.3E-02	i	4.6E-00	i	5.0E-04	r	0	0.10	79277-27-3	Harmony	7.9E+02	nc	8.0E+03	nc	4.7E+02	nc		
4.5E+00	i	5.0E-04	i	9.1E+00	i	1.3E-05	r	1.1E-01	ca	3.8E-01	ca	1.5E-02	ca	2.3E+01	1.0E+00		
9.1E+00	i	1.3E-05	i	9.1E+00	i	1.3E-05	r	0	0.10	1024-57-3	Heptachlor epoxide	5.3E-02	ca*	1.9E-01	ca*	7.4E-03	ca*
2.0E-03	i	2.0E-03	r	0	0.10	8742-1	Hexabromobenzene	1.2E+02	nc	1.2E+03	nc	7.3E+00	nc	7.3E+01	nc		
1.6E-00	i	8.0E-04	i	1.6E-00	i	8.0E-04	r	0	0.10	118-74-1	Hexachlorobenzene	3.0E-01	ca	1.1E+00	ca	4.2E-02	ca
7.8E-02	i	3.0E-04	n	7.8E-02	i	3.0E-04	r	0	0.10	8748-3	Hexachlorobutadiene	6.2E+00	ca**	2.2E+01	ca**	8.6E-02	ca*
6.3E+00	i	5.0E-04	n	6.3E-00	i	5.0E-04	r	0	0.04	319-84-8	HCH (alpha)	9.0E-02	ca	3.6E-01	ca	1.1E-03	ca
1.8E+00	i	2.0E-04	n	1.8E-00	i	2.0E-04	r	0	0.04	319-85-7	HCH (beta)	3.2E-01	ca	1.3E+00	ca	3.7E-03	ca
1.3E+00	h	3.0E-04	i	1.3E+00	r	3.0E-04	r	0	0.04	5848-9	HCH (gamma) Lindane	4.4E-01	ca*	1.7E+00	ca	5.2E-03	ca
1.8E+00	i	1.8E+00	i	6.7E-05	i	0	0.10	7747-4	HCH-technical	3.2E-01	ca	1.3E+00	ca	3.8E-03	ca		
1.4E-02	i	1.0E-03	i	1.4E-02	i	1.0E-03	r	0	0.10	87-72-1	Hexachloroethane	3.7E+02	nc	3.7E+03	nc	2.1E-01	nc
1.1E-01	i	3.0E-03	i	1.1E-01	r	3.0E-03	r	0	0.10	121-82-4	Hexahydro-1,3,5-trifluoro-1,3,5-triazine	1.8E+01	nc	2.0E+02	nc	6.1E-02	ca
2.9E-06	r			2.9E-06	i	0	0.10	822-08-0	1,6-Hexamethylene diisocyanate	1.7E-01	nc	1.8E+00	nc	1.0E-02	nc		
6.0E-02	h	6.7E-02	i	1	1.10-54-3	n-Hexane	1.1E+02	ca†	1.1E+02	ca†	2.1E+02	nc	3.5E+02	nc			
3.3E-02	i	3.3E-02	r	0	0.10	51235-04-2	Hexazirnone	2.0E+03	nc	2.0E+04	nc	1.2E+02	nc	1.2E+03	nc		
3.0E-00	n	1.7E-01	n	1.7E-01	n	0	0.10	302-01-2	Hydrazine, hydrazine sulfate	1.6E-01	ca	5.7E-01	ca	3.9E-04	2.2E-02		
3.0E-00	n	1.7E-01	n	0.10	57-14-7	Hydrazine, monomethyl	1.6E-01	ca	5.7E-01	ca	4.0E-04	ca	2.2E-02	ca			
2.0E-02	i	5.7E-03	i	7647-31-0	Hydrogen chloride					2.1E-01	nc						
3.0E-03	i	8.6E-04	i	1	74-90-8	Hydrogen cyanide	1.1E+01	nc	3.5E+01	nc	3.1E+00	nc	6.2E+00	nc			
4.0E-02	h	4.0E-02	r	0	0.10	123-31-9	Hydrogen sulfide	2.4E+03	nc	2.5E+04	nc	1.5E+02	nc	1.1E+02	nc		
1.3E-02	i	1.3E-02	r	0	0.10	3554-44-0	Imazallil	7.9E+02	nc	8.0E+03	nc	4.7E+01	nc	4.7E+02	nc		
2.5E-01	i	2.5E-01	r	0	0.10	81335-37-7	Imazadquin	1.5E+04	nc	1.0E+05	max	9.1E+02	nc	9.1E+03	nc		
4.0E-02	i	4.0E-02	r	0	0.10	36734-19-7	Iprodione	2.4E+03	nc	2.5E+04	nc	1.5E+02	nc	1.5E+03	nc		
3.0E-01	n	0		7439-38-6	Iron	2.3E+04	nc	1.0E+05	max			1.1E+04	nc				
9.5E-04	i	3.0E-01	r	2.0E-01	r	0	0.10	78-33-1	Isobutanol	1.3E+04	nc	4.0E+04	max	1.1E+03	nc		
9.5E-04	i	9.5E-04	r	2.0E-01	r	0	0.10	78-39-1	Isophorone	5.1E+02	ca*	1.8E+03	ca*	7.1E+00	ca		

Key : SFo=Cancer Slope Factor oral, inhalation RDo=Reference Dose oral, inhalation IRIS_h=HEAST n=NCEA x=Other EPA Source r=Routa=extrapolation ca=Cancer PRG nc=Noncancer PRG nc*=Cancer PRG ca*(where: nc < 100X ca) o=Withdrawn a=Withdrawn x**=(where: nc < 10X ca)
 ***=Non-Standard Method Applied (See Section 2.6 of the "Region 9 PRGs Table User's Guide") sat=Soil Saturation (See Section 2.5) max=Calming limit (See Section 2.1) DAF=Dilution Attenuation Factor (See Section 2.5) CAS=Chemical Abstracts Service

TOXICITY INFORMATION		CONTAMINANT		PRELIMINARY REMEDIAL GOALS (PRGs)						SOIL SCREENING LEVELS				
SFo 1/(mg/kg-d)	RDo (mg/kg-d)	SFI 1/(mg/kg-d)	RDI (mg/kg-d)	V skin abs. soils	C soils	CAS No.	Residential Soil (mg/kg)	Industrial Soil (mg/kg)	Ambient Air (ug/m ³)	Tap Water (ug/l)	"Migration to Ground Water" DAF 1 (mg/kg)	DAF 20 (mg/kg)		
1.5E-02	i	1.5E-02	r	0	0.10	33820-53-0	Isopropalin	9.2E+02	nc	9.2E+03	nc	5.5E+02		
1.0E-01	i	1.1E-01	r	0	0.10	1832-54-8	Isopropyl methyl phosphonic acid	6.1E+03	nc	6.2E+04	nc	3.6E+03		
5.0E-02	i	5.0E-02	r	0	0.10	82558-50-7	Iosabent	3.1E+03	nc	3.1E+04	nc	1.8E+03		
6.0E-00	n	6.0E-04	r	3.0E-04	r	0	143-50-0	Kepone	6.1E-02	ca	2.2E-01	ca	8.4E-03	
2.0E-03	i	2.0E-03	r	0	0.10	77501-63-4	Lactofen	1.2E+02	nc	1.2E+03	nc	7.3E+01		
For Info see: www.epa.gov/cempage/superfund/program/efiprodle.htm#guidance		7439-92-1		Lead+++		4.0E+02		7.5E+02		nc		nc		
For Info see: www.dic.ca.gov/science/technology/efiprodle.htm		Lead "C" Al-Modified PRG***		1.5E+02		6.1E-03		6.2E-02		nc		3.6E-03		
1.0E-07	i	1.0E-07	r	0	0.10	78-00-2	Lead (tetraethyl)	1.2E+02	nc	1.2E+03	nc	7.3E+00	nc	
2.0E-03	i	2.0E-03	r	0	0.10	330-55-2	Linuron	1.2E+02	nc	1.2E+03	nc	7.3E+01	nc	
2.0E-02	x	2.0E-01	r	0	0.10	7439-93-2	Lithium	1.6E+03	nc	2.0E+04	nc	7.3E+02	nc	
2.0E-01	i	2.0E-01	r	0	0.10	83055-99-8	Londax	1.2E+04	nc	1.0E+05	max	7.3E+02	nc	
2.0E-02	i	2.0E-02	r	0	0.10	121-75-5	Malaithion	1.2E+03	nc	1.2E+04	nc	7.3E+01	nc	
1.0E-01	i	1.0E-01	r	0	0.10	108-31-6	Maleic anhydride	6.1E+03	nc	6.2E+04	nc	3.7E+02	nc	
5.0E-01	i	5.0E-01	r	1	123-33-1	Maleic hydrazide	1.7E+03	nc	2.4E+03	est	1.8E+03	nc		
2.0E-05	h	2.0E-05	r	0	0.10	108-77-3	Malononitrile	1.2E+00	nc	1.2E+01	nc	7.3E-02	nc	
3.0E-02	h	3.0E-02	r	0	0.10	8018-01-7	Mancobenz	1.8E+03	nc	1.8E+04	nc	3.0E+03	nc	
6.0E-02	o	6.0E-03	r	5.0E-03	r	0	12427-38-2	Maneb	8.1E+00	ca*	2.9E+01	ca	1.1E+00	ca
2.4E-02	i	1.4E-02	r	1.0E-02	r	0	7439-94-5	Manganese and compounds++	1.8E+03	nc	1.9E+04	nc	5.1E-02	nc
9.0E-05	h	9.0E-05	r	0	0.10	950-10-7	Mephositolan	5.5E+00	nc	5.5E+01	nc	3.3E-01	nc	
3.0E-02	i	3.0E-02	r	0	0.10	24307-28-4	Mepiquat chloride	1.8E+03	nc	1.8E+04	nc	1.1E+02	nc	
2.0E-02	n	1.0E-01	r	1.0E-01	r	0	149-30-4	2-Mercaptobenzothiazole	1.7E+01	ca	5.9E+01	ca	2.3E-01	ca
3.0E-04	i	6.0E-05	r	0	0.10	7487-94-7	Mercury chloride	2.3E+01	nc	3.1E+02	nc	1.1E+01	nc	
1.0E-04	i	6.0E-05	r	0	0.10	7439-97-6	Mercury (elemental)	0.0E+00	0.0E+00	0.0E+00	nc	3.1E-01	nc	
3.0E-05	i	3.0E-05	r	0	0.10	150-50-5	Merphos	1.8E+00	nc	1.8E+01	nc	1.1E+00	nc	
3.0E-05	i	3.0E-05	r	0	0.10	78-48-8	Merphos oxide	1.8E+00	nc	1.8E+01	nc	1.1E+00	nc	
6.0E-02	i	6.0E-02	r	0	0.10	57837-19-1	Metialaxylyl	3.7E+03	nc	3.7E+04	nc	2.2E+03	nc	
1.0E-04	i	2.0E-04	h	1	128-98-7	Methacrylonitrile	2.1E+00	nc	8.4E+00	nc	7.3E-01	nc		
5.0E-05	i	5.0E-05	r	0	0.10	10265-92-8	Methamidophos	3.1E+00	nc	3.1E+01	nc	1.8E+00	nc	
5.0E-01	i	5.0E-01	r	0	0.10	8758-1	Methanol	3.1E+04	nc	1.0E+05	max	1.8E+03	nc	
1.0E-03	i	1.0E-03	r	0	0.10	950-37-8	Methidathion	6.1E+01	nc	6.2E+02	nc	3.7E+00	nc	
2.0E-02	i	2.0E-02	r	1	16752-77-5	Methomyl	4.4E+01	nc	1.5E+02	nc	9.1E+01	nc		
5.0E-03	i	5.0E-03	r	0	0.10	7243-5	Methoxychlor	3.1E+02	nc	3.1E+03	nc	1.8E+02	nc	
1.0E-03	h	5.7E-03	i	0	0.10	108-98-4	2-Methoxyethanol	6.1E+01	nc	6.2E+02	nc	2.1E+01	nc	
2.0E-03	h	2.0E-03	r	0	0.10	110-48-8	2-Methoxyethanol acetate	1.2E+02	nc	1.2E+03	nc	7.3E+01	nc	
4.0E-02	h	4.8E-02	r	0	0.10	98-59-2	2-Methoxy-5-nitroaniline	1.1E+01	ca	3.7E+01	ca	1.5E+00	ca	

Key : SE:Site Factor; oral, inhalation RD₀:Reference Dose oral, Inhalation =IRIS; H-HEAT =NCEA x=Route-extrapolation ca=Cancer PRG nc=Noncancer PRG o=Other EPA Source r=Route-extrapolation ca*(where, nc < 100X ca), ca*(where, nc < 10X ca) n=Withdrawn m=NCEA x=Non-Standard Method Applied (See Section 2.3 of the Region 9 PRGE Table User's Guide) s=Soil Saturation (See Section 2.1) DAF=Dilution Alteration Factor (See Section 2.5) CS=Chemical Abstract Service +++=Non-Standard Method Applied (See Section 2.3 of the Region 9 PRGE Table User's Guide)

TOXICITY INFORMATION

Contaminant	Preliminary Remedial Goals (PRGs)										Soil Screening Levels						
	SFO 1/(mg/kg-d)	RDo (mg/kg-d)	SFI 1/(mg/kg-d)	RDI (mg/kg-d)	V skin abs. C soils	CAS No.	Residential Soil (mg/kg)	Industrial Soil (mg/kg)	Ambient Air ($\mu\text{g/m}^3$)	Tap Water ($\mu\text{g/l}$)	DAF 20 (mg/kg)	DAF 1 (mg/kg)	"Migration to Ground Water"				
2,4-E1	1.0E+00	h		1.0E+00	r	1	70-20-9	Methyl acetate	2.2E+04	nc	3.7E+03	nc	6.1E+03	nc			
	3.0E-02	h		3.0E-02	r	1	98-33-3	Methyl acrylate	7.0E+01	nc	2.3E+02	nc	1.8E+02	nc			
2-Methylaniline (o-toluidine)				0	0	0.10	95-53-4	2-Methylaniline (o-toluidine)	2.0E+00	ca	7.2E+00	ca	2.8E-01	ca			
2,4-E1	1.8E-01	h	2.4E-01	r	0	0.10	636-21-5	2-Methylaniline hydrochloride	2.7E+00	ca	9.6E+00	ca	3.7E-01	ca			
5.0E-04	i		1.8E-01	r	0	0.10	94-74-8	2-Methyl-4-chlorophenoxyacetic acid	3.1E+01	nc	3.1E+02	nc	1.8E+01	nc			
1.0E-02	i		1.0E-02	r	0	0.10	94-91-5	4-(2-Methyl-4-chlorophenoxy) butyric acid	6.1E+02	nc	6.2E+03	nc	3.6E+02	nc			
1.0E-03	i		1.0E-03	r	0	0.10	93-65-2	2-(2-Methyl-4-chlorophenoxy) propionic acid	6.1E+01	nc	6.2E+02	nc	3.6E+01	nc			
1.0E-03	i		1.0E-03	r	0	0.10	16484-77-8	2-(2-Methyl-1,4-chlorophenoxy) propanoic acid	6.1E+01	nc	6.2E+02	nc	3.6E+01	nc			
8.6E-01	r		8.6E-01	h	1	108-57-2	Methylcyclohexane	2.6E+03	nc	8.7E+03	nc	3.1E+03	nc				
2.5E-01	h		2.5E-01	r	0	0.10	101-77-9	4,4'-Methylenebis(benzeneamine)	1.9E+00	ca	6.9E+00	ca	5.2E+03	nc			
1.3E-01	h	7.0E-04	h	1.3E-01	h	7.0E-04	r	0	0.10	101-14-4	4,4'-Methylene bis(2-chloroaniline)	3.7E+00	ca*	5.2E-02	ca		
4.6E-02	i		4.6E-02	r	0	0.10	101-81-1	4,4'-Methylene bis(N,N-dimethyl-aniline)	1.1E+01	ca	3.7E+01	ca	1.5E-01	ca			
7.5E-03	i	6.0E-02	i	1.6E-03	i	8.6E-01	h	1	70-95-3	Methylene bromide	6.7E+01	nc	2.3E+02	nc	3.7E+01	nc	
1.7E-04	r			1.7E-04	i	0	0.10	101-68-8	Methylene chloride	9.1E+00	ca	2.1E+01	ca	4.3E+00	ca		
8.0E-02	h		2.3E-02	h	1	108-10-1	4,4'-Methylene diphenyl diisocyanate	1.0E+01	nc	1.0E+02	nc	6.2E-01	nc	6.2E+00	nc		
5.7E-04	r		6.7E-04	h	0	0.10	74-93-1	Methyl ethyl ketone	7.3E+03	nc	2.7E+04	nc	1.0E+03	nc			
6.0E-01	i		2.6E-01	i	1	78-93-3	Methyl isobutyl ketone	7.9E+02	nc	2.8E+03	nc	8.3E+01	nc	1.6E+02	nc		
5.0E-02	i		2.0E-01	i	1	80-62-6	Methyl Mercaptan	3.5E+01	nc	3.5E+02	nc	2.1E+00	nc	2.1E+01	nc		
3.3E-02	h		3.3E-02	r	0	0.10	86-55-8	Methyl methacrylate	2.2E+03	nc	2.7E+03	sat	7.3E+02	nc	1.4E+03	nc	
2.5E-04	i		2.5E-04	r	0	0.10	286-00-0	2-Methylparathion	1.5E+01	ca	5.2E+01	ca	2.0E-01	ca	2.0E+00	ca	
5.0E-02	i		5.0E-02	r	0	0.10	95-18-7	2-Methylphenol	3.1E+03	nc	3.1E+04	nc	1.8E+02	nc	1.8E+03	nc	
5.0E-02	i		5.0E-02	r	0	0.10	108-38-4	3-Methylphenol	3.1E+03	nc	3.1E+04	nc	1.8E+02	nc	1.8E+03	nc	
5.0E-03	h		5.0E-03	r	0	0.10	108-44-5	4-Methylphenol	3.1E+02	nc	3.1E+03	nc	1.8E+01	nc	1.8E+02	nc	
2.0E-02	n		2.0E-02	r	0	0.10	98-13-5	Methyl phosphonic acid	1.2E+03	nc	1.2E+04	nc	7.3E+01	nc	7.3E+02	nc	
6.0E-03	h		1.1E-02	h	1	250-13-15-4	Methyl styrene (mixture)	1.3E+02	nc	5.4E+02	nc	4.2E+01	nc	6.0E+01	nc		
7.0E-02	h		7.0E-02	r	1	98-83-9	Methyl styrene (alpha)	6.8E+02	sat	6.8E+02	sat	2.6E+02	nc	4.3E+02	nc		
3.3E-03	n	6.8E-01	r	3.5E-04	n	8.6E-01	i	1	103-04-4	Methyl tertbutyl ether (MTBE)	6.2E+01	cat*	1.6E+02	ca	1.9E+01	ca	
1.6E-03	1.8E-03			1.5E-01	r	0	0.10	51218-45-2	"CAL-Modified PRG"	1.7E+01	ca	3.6E+01	ca	3.7E+00	ca		
1.8E+00	x	2.0E-04	i	1.8E+00	r	2.0E-04	r	0	0.10	288-54-5	Mefluiaclor (Dual)	9.2E+03	nc	9.2E+04	nc	5.5E+03	nc
2.0E-03	i			2.0E-03	r	0	0.10	212-27-1	Mirex	2.7E-01	ca*	9.6E-01	ca	3.7E-03	ca		
5.0E-03	i				0	0	7438-98-7	Molybdenum	3.9E+02	nc	5.1E+03	nc	1.8E+02	nc			
1.0E-01	i		1.0E-01	r	0	0.10	10598-90-3	Monochloramine	6.1E+03	nc	6.2E+04	nc	3.6E+03	nc			
2.0E-03	i		2.0E-03	r	0	0.10	300-76-5	Naled	1.2E+02	nc	1.2E+03	nc	7.3E+00	nc			

Key: SF_o=Cancer Slope Factor oral, inhalation =IRIS h=EAST n=NCEA x=Withdrawn o=Other EPA Source =Route+extrapolation ca=Cancer PRG ca<Noncancer PRG ca (where: nc < 100X ca), ca^{nm}(where: nc < 10X ca) DA=Dilution Attenuation Factor (See Section 2.5) CAS=Chemical Abstracts Service
+++=+Non-Standard Method Applied (See Section 2.3 of the "Region 9 PRGs Table User's Guide") sat=Saturation (See Section 4.5) max= ceiling limit (See Section 2.1)

Key : SFo=Cancer Slope Factor oral, Inhalation RfDo=Reference Dose oral, Inhalation RfDi=Reference Dose oral, Inhalation RfDc=Route=Extrapolation Factor ca*=Noncarcinogen PRG nc*=Other EPA Source =Route=Extrapolation ca-Cancer PRG nc=Other EPA Source =Route=Extrapolation ca*=Where: nc < 10X ca ca**=Where: nc < 10X ca) ca***=Where: nc < 10X ca)

***=Non-Standard Method Applied (See Section 2.3 of the "Region 9 PRGs Table User's Guide") nc=Sediment Saturation (See Section 4.5) max-Cutting limit (See Section 2.1) DAF=Dilution Alteration Factor (See Section 2.5) CaS=Chemical Abated Services

TOXICITY INFORMATION				CONTAMINANT				PRELIMINARY REMEDIAL GOALS (PRGs) ^a				SOIL SCREENING LEVELS ^b			
SFo 1/(mg/kg-d)	RfDo (mg/kg-d)	SFi 1/(mg/kg-d)	RfDi (mg/kg-d)	V skin abs soils	C CAS No.	Direct Contact Exposure Pathways ^c				Migration to Ground Water ^d					
						Residential Soil (mg/kg)	Industrial Soil (mg/kg)	Ambient Air (ug/m ³)	Tap Water (ug/l)	DAF 1 (mg/kg)	DAF 20 (mg/kg)				
5.0E-02	h	5.0E-02	r	0	0.10	1114-71-2	Pebulate	3.1E+03	nc	1.8E+02	nc	1.8E+03	nc		
4.0E-02	i	4.0E-02	r	0	0.10	40487-42-1	Pendimethalin	2.4E+03	nc	1.5E+04	nc	1.5E+03	nc		
2.3E-02	h	2.3E-02	r	0	0.10	87-84-3	Pentabromo-6-chloro cyclohexane	2.1E+01	ca	7.5E+01	ca	2.9E+00	ca		
2.0E-03	i	2.0E-03	r	0	0.10	3253-81-9	Pentabromodiphenyl ether	1.2E+02	nc	1.2E+03	nc	7.3E+01	nc		
8.0E-04	i	8.0E-04	r	0	0.10	606-93-5	Pentachlorobenzene	4.9E+01	nc	4.9E+02	nc	2.9E+01	nc		
2.6E-01	h	2.6E-01	r	3.0E-03	r	0	0.10	82-88-6	Pentachlorotoluene	1.9E+00	ca*	6.6E+00	ca	2.6E-01	ca
1.2E-01	i	1.2E-01	r	3.0E-02	r	0	0.25	87-86-5	Pentachlorophenol	3.0E+00	ca	9.0E+00	ca	5.6E-01	ca
1.00E-04	x			0		7601-90-3	Perchlorate	7.8E+00	ca/hc	1.0E+02	ca/hc	3.6E+00	ca/hc		
5.0E-02	i	5.0E-02	r	0	0.10	52645-53-1	Permethrin	3.1E+03	nc	3.1E+04	nc	1.8E+03	nc		
2.5E-01	i	2.5E-01	r	0	0.10	1384-83-4	Phenmedipharm	1.5E+04	nc	1.0E+05	max	9.1E+02	nc	9.1E+03	nc
6.0E-01	i	6.0E-01	r	0	0.10	108-95-2	Phenol	3.7E+04	nc	1.0E+05	max	2.2E+03	nc	2.2E+04	nc
2.0E-03	n	2.0E-03	r	0	0.10	92-84-2	Phenothalazine	1.2E+02	nc	1.2E+03	nc	7.3E+00	nc	7.3E+01	nc
6.0E-03	i	6.0E-03	r	0	0.10	108-45-2	m-Phenylenediamine	3.7E+02	nc	3.7E+03	nc	2.2E+01	nc	2.2E+02	nc
1.9E-01	h	1.9E-01	r	0	0.10	69E-03	p-Phenylenediamine	1.2E+04	nc	1.0E+05	max	6.9E+02	nc	6.9E+03	nc
8.0E-05	i	8.0E-05	r	0	0.10	62-38-4	Phenylnicuric acetate	4.9E+00	nc	4.9E+01	nc	2.9E-01	nc	2.9E+00	nc
1.9E-03	h	1.9E-03	r	0	0.10	90-43-7	2-Phenylphenol	2.5E+02	ca	8.9E+02	ca	3.5E+00	ca	3.5E+01	ca
2.0E-04	h	2.0E-04	r	0	0.10	298-02-2	Phorate	1.2E+01	nc	1.2E+02	nc	7.3E-01	nc	7.3E+00	nc
2.0E-02	i	2.0E-02	r	0	0.10	732-11-6	Phosmet	1.2E+03	nc	1.2E+04	nc	7.3E+01	nc	7.3E+02	nc
3.0E-04	i	3.0E-05	i	0	0.10	7803-51-2	Phosphine	1.8E+01	nc	1.8E+02	nc	3.1E-01	nc	1.1E+01	nc
2.0E-05	i	2.0E-03	i	0	0.10	7884-38-2	Phosphoric acid	1.6E+00	nc	2.0E+01	nc	1.0E+01	nc	7.3E-01	nc
1.0E+00	h	1.0E+00	r	0	0.10	100-21-0	p-Phthalic acid	6.1E+04	nc	1.0E+05	max	3.7E+03	nc	3.6E+04	nc
2.0E+00	i	3.4E-02	h	0	0.10	85-44-9	Phthalic anhydride	1.0E+05	max	1.0E+05	max	1.2E+02	nc	7.3E+04	nc
7.0E-02	i	7.0E-02	r	0	0.10	1918-02-1	Picloram	4.3E+03	nc	4.3E+04	nc	2.6E+02	nc	2.6E+03	nc
1.0E-02	i	1.0E-02	r	0	0.10	2923-93-7	Pririmphos-methyl	6.1E+02	nc	6.2E+03	nc	3.7E+01	nc	3.6E+02	nc
8.9E+00	h	8.9E-06	h	0	0.10	70E-08	r	5.5E-02	ca**	1.9E-01	ca*	7.6E-04	ca*	7.6E-03	ca*
2.0E+00	i	2.0E+00	i	0	0.14	1338-38-3	Polybrominated biphenyls	2.2E-01	ca	7.4E-01	ca	3.4E-03	ca	3.4E-02	ca
7.0E-02	i	7.0E-02	r	0	0.14	1287-11-2	Aroclor 1016	3.9E+00	nc	2.1E+01	ca**	9.6E-02	ca**	9.6E-01	ca**
2.0E+00	i	2.0E+00	i	0	0.14	1104-28-2	Aroclor 1221	2.2E-01	ca	7.4E-01	ca	3.4E-03	ca	3.4E-02	ca
2.0E+00	i	2.0E+00	i	0	0.14	11141-16-5	Aroclor 1232	2.2E-01	ca	7.4E-01	ca	3.4E-03	ca	3.4E-02	ca
2.0E+00	i	2.0E+00	i	0	0.14	53469-21-9	Aroclor 1242	2.2E-01	ca	7.4E-01	ca	3.4E-03	ca	3.4E-02	ca
2.0E+00	i	2.0E+00	i	0	0.14	12672-29-8	Aroclor 1248	2.2E-01	ca	7.4E-01	ca	3.4E-03	ca	3.4E-02	ca
2.0E+00	i	2.0E+05	i	2.0E+05	r	0	0.14	11087-86-1	Aroclor 1254	2.2E-01	ca**	7.4E-01	ca*	3.4E-03	ca*
2.0E+00	i	2.0E+00	i	0	0.14	11088-32-5	Aroclor 1260	2.2E-01	ca	7.4E-01	ca	3.4E-03	ca	3.4E-02	ca

Key : SFo=Cancer Slope Factor oral, inhalation RDo=Reference Dose oral, inhalation =IRIS h=HEAST n=NCEA x=WinDerm o=Other EPA Source =Route=Extrapolation ca=Cancer PRG ca*=Noncancer PRG ca**=Where: nc < 100X ca, ca***=Where: nc < 10X ca
 ***=Non-Standard Method Applied (See Section 2.3 of the "Region 9 PRGs Table User's Guide") set=Soil Saturation (See Section 2.9 of the "Region 9 PRGs Table User's Guide") sat=Soil Saturatoin Factor (See Section 2.5) CAS=Chemical Abstracts Service

TOXICITY INFORMATION							SOIL SCREENING LEVELS						
CONTAMINANT				PRELIMINARY REMEDIAL GOALS (PRGs)			Migration Pathways			Migration to Ground Water			
SFo 1/(mg/kg-d)	RDo (mg/kg-d)	SFI 1/(mg/kg-d)	RDI (mg/kg-d)	V skin O abs. C soils	CAS No.	Residential Soil (mg/kg)	Industrial Soil (mg/m ³)	Ambient Air (ug/m ³)	Tap Water (ug/l)	DAF 1 (mg/kg)	DAF 20 (mg/kg)		
4.5E+00	n	4.5E+00	r	0.10	61788-33-8 Polychlorinated terphenyls	1.1E-01	ca	3.8E-01	ca	1.5E-02	ca	1.5E-02	ca
6.0E-02	i	6.0E-02	r	1	83-32-6 Acenaphthene	3.7E+03	nc	2.9E+04	nc	2.2E+02	nc	3.7E+02	nc
3.0E-01	i	3.0E-01	r	1	120-12-7 Anthracene	2.2E+04	nc	1.0E+05	max	1.1E+03	nc	1.8E+03	nc
7.3E-01	n	7.3E-01	r	0	58-55-3 Benz[a]anthracene	6.2E-01	ca	2.1E+00	ca	9.2E-03	ca	9.2E-02	ca
7.3E-01	n	7.3E-01	r	0	0.13 Benz[b]fluoranthene	6.2E-01	ca	2.1E+00	ca	9.2E-03	ca	9.2E-02	ca
7.3E-02	n	7.3E-02	r	0	0.13 Benz[k]fluoranthene	6.2E+00	ca	2.1E+01	ca	9.2E-02	ca	9.2E-01	ca
1.2E+00		3.9E-01		0.13	207-08-9 "CAL Modified PRG"	3.8E-01	ca	1.3E+00	ca	1.7E-02	ca	5.6E-02	ca
7.3E-00	i	7.3E-00	r	0	0.13 Benz[a]pyrene	6.2E-02	ca	2.1E-01	ca	9.2E-04	ca	9.2E-03	ca
7.3E-03	n	7.3E-03	r	0	0.13 Chrysene	6.2E+01	ca	2.1E+02	ca	9.2E-01	ca	9.2E+00	ca
1.2E-01		3.9E-02		0.13	"CAL Modified PRG"	3.8E+00	ca	1.3E+01	ca	1.7E-01	ca	5.6E-01	ca
7.3E-00	n	7.3E-00	r	0	0.13 Dibenz[a,h]anthracene	6.2E-02	ca	2.1E-01	ca	9.2E-04	ca	9.2E-03	ca
4.0E-02	i	4.0E-02	r	0	0.13 Fluoranthene	2.3E+03	nc	2.2E+04	nc	1.5E+02	nc	1.5E+03	nc
4.0E-02	i	4.0E-02	r	1	86-73-7 Fluorene	2.7E+03	nc	2.6E+04	nc	2.4E+02	nc	2.4E+02	nc
7.3E-01	n	7.3E-01	r	0	0.13 Indeno[1,2,3-cd]pyrene	6.2E-01	ca	2.1E+00	ca	9.2E-03	ca	9.2E-02	ca
2.0E-02	i	6.6E-04	i	1	91-20-3 Naphthalene	5.6E+01	nc	1.9E+02	nc	3.1E+00	nc	6.2E+00	nc
3.0E-02	i	3.0E-02	r	1	128-00-0 Pyrene	2.3E+03	nc	2.9E+04	nc	1.1E+02	nc	1.8E+02	nc
1.5E-01	i	1.5E-01	r	0	0.10 Prochloraz	3.2E+00	ca	1.1E+01	ca	4.5E-02	ca	4.5E-01	ca
8.0E-03	h	6.0E-03	r	0	0.10 Prolifuralin	3.7E+02	nc	3.7E+03	nc	2.2E+01	nc	2.2E+02	nc
1.5E-02	i	1.5E-02	r	0	0.10 Promelton	9.2E+02	nc	9.2E+03	nc	5.5E+01	nc	5.5E+02	nc
4.0E-03	i	4.0E-03	r	0	0.10 Prometryn	2.4E+02	nc	2.5E+03	nc	1.5E+01	nc	1.5E+02	nc
7.5E-02	i	7.5E-02	r	0	0.10 Pronamide	4.6E+03	nc	4.6E+04	nc	2.7E+02	nc	2.7E+03	nc
1.3E-02	i	1.3E-02	r	0	0.10 Propachlor	7.9E+02	nc	8.0E+03	nc	4.7E+01	nc	4.7E+02	nc
5.0E-03	i	5.0E-03	r	0	0.10 Propanil	3.1E+02	nc	3.1E+03	nc	1.8E+01	nc	1.8E+02	nc
2.0E-02	i	2.0E-02	r	0	0.10 Propargite	1.2E+03	nc	1.2E+04	nc	7.3E+01	nc	7.3E+02	nc
2.0E-03	i	2.0E-03	r	0	0.10 Propargyl alcohol	1.2E+02	nc	1.2E+03	nc	7.3E+00	nc	7.3E+01	nc
2.0E-02	i	2.0E-02	r	0	0.10 Propazine	1.2E+03	nc	1.2E+04	nc	7.3E+01	nc	7.3E+02	nc
1.3E-02	i	1.3E-02	r	0	0.10 Propham	1.2E+03	nc	1.2E+04	nc	7.3E+01	nc	7.3E+02	nc
1.3E-02	i	1.3E-02	r	0	0.10 Propiconazole	7.9E+02	nc	8.0E+03	nc	4.7E+01	nc	4.7E+02	nc
1.0E-01	i	1.1E-01	i	1	98-32-8 Isopropylbenzene (Cumene)	1.6E+02	nc	5.2E+02	nc	4.0E+02	nc	6.6E+02	nc
4.00E-02	n	4.00E-02	r	1	103-68-1 n-Propylbenzene	2.4E+02	est	2.4E+02	est	1.5E+02	nc	2.4E+02	nc
5.0E-01	h	6.6E-04	h	0	0.10 Propylene glycol	3.0E+04	nc	1.0E+05	max	3.1E+00	nc	1.8E+04	nc
7.0E-01	h	7.0E-01	r	0	0.10 Propylene glycol, monomethyl ether	4.3E+04	nc	1.0E+05	max	2.6E+03	nc	2.6E+04	nc
7.0E-01	h	5.7E-01	i	0	0.10 Propylene oxide	4.3E+04	nc	1.0E+05	max	2.1E+03	nc	2.6E+04	nc
2.4E-01	i	8.6E-03	r	1.3E-02	i	8.6E-03	i	1	75-58-9 Propylene oxide	1.9E+00	ca*	6.6E+00	ca*

Key: SFo=Cancer Slope Factor oral, inhalation RfDo=Reference Dose oral, inhalation =RfIS n=HEAST r=NEA x=Withdrawn o=Other EPA Source f=Route-extrapolation ca=Cancer PRG nc=Noncancer PRG at=(where nc < 100X ca) ca*=(where nc > 100X ca)

***=Non-Standard Method Applied (See Section 2.3 of the "Region 9 PRGs Table User's Guide") sat=Saturation (See Section 4.5) max=calculating limit (See Section 2.1) DAF=Dilution Attenuation Factor (See Section 2.5) CAS=Chemical Abstract Services

TOXICITY INFORMATION							CONTAMINANT							PRELIMINARY REMEDIAL GOALS (PRGS)							SOIL SCREENING LEVELS								
SFo 1/(mg/kg-d)	RfDo (mg/kg-d)	SFI 1/(mg/kg-d)	RfDi (mg/kg-d)	V skin C abs. soils	CAS No.																								
2.5E-01	i		2.5E-01	r	0	0.10	84335-77-5	Pursuit						1.5E+04	nc	1.0E+05	max	9.1E+02	nc	9.1E+03	nc								
2.5E-02	i		2.5E-02	r	0	0.10	54630-56-1	Pyridin						1.5E+03	nc	1.5E+04	nc	9.1E+01	nc	9.1E+02	nc								
1.0E-03	i		1.0E-03	r	0	0.10	110-86-1	Pyridine						6.1E+01	nc	6.2E+02	nc	3.7E+00	nc	3.6E+01	nc								
5.0E-04	i		5.0E-04	r	0	0.10	15653-03-8	Quinalphos						3.1E+01	nc	3.1E+02	nc	1.8E+00	nc	1.8E+01	nc								
1.1E-01	i	3.0E-03	1.1E-01	r	0	0.10	91-22-5	Quinoline						1.6E-01	ca	5.7E-01	ca	2.2E-03	ca	2.2E-02	ca								
3.0E-00	i	3.0E+00	1					RDX (Cyclonite)						4.4E+00	ca*	1.6E+01	ca	6.1E-02	ca	6.1E-01	ca								
3.0E-02	i		3.0E-02	r	0	0.10	10453-86-8	Resmethrin						1.8E+03	nc	1.8E+04	nc	1.1E+02	nc	1.1E+03	nc								
5.0E-02	h		5.0E-02	r	0	0.10	266-34-3	Ronnel						3.1E+03	nc	3.1E+04	nc	1.8E+02	nc	1.8E+03	nc								
4.0E-03	i		4.0E-03	r	0	0.10	83-79-4	Rotenone						2.4E+02	nc	2.5E+03	nc	1.5E+01	nc	1.5E+02	nc								
2.5E-02	i		2.5E-02	r	0	0.10	70587-05-0	Savey						1.5E+03	nc	1.5E+04	nc	9.1E+01	nc	9.1E+02	nc								
5.0E-03	i		5.0E-03	0	0	0.10	7783-00-8	Selenious Acid						3.1E+02	nc	3.1E+03	nc	1.8E+02	nc	1.8E+02	nc								
5.0E-03	i		5.0E-03	0	0	0.10	7782-49-2	Selenium						3.9E+02	nc	5.1E+03	nc	1.8E+02	nc	5.0E+00	3.0E-01								
5.0E-03	h		9.0E-02	r	0	0.10	630-10-4	Selenurea						3.1E+02	nc	3.1E+03	nc	1.8E+02	nc	1.8E+02	nc								
9.0E-02	i		9.0E-02	r	0	0.10	74051-90-2	Sethoxydim						5.5E+03	nc	5.5E+04	nc	3.3E+02	nc	3.3E+03	nc								
5.0E-03	i		5.0E-03	0	0	0.10	7446-22-4	Silver and compounds						3.9E+02	nc	5.1E+03	nc	1.8E+02	nc	3.4E+01	2.0E+00								
1.2E-01	h	5.0E-03	1.2E-01	r	0	0.10	122-34-9	Simazine						4.1E+00	ca*	1.4E+01	ca	5.6E-02	ca	5.6E-01	ca								
4.0E-03	i		4.0E-03	2.7E-01	r	0	0.10	20828-22-8	Sodium azide						1.8E+00	ca	6.4E+00	ca	2.5E-02	ca	2.5E-01	ca							
2.7E-01	h	3.0E-02	2.7E-01	r	3.0E-02	r	0	0.10	148-18-5	Sodium diethylidithiocarbamate						1.2E+00	nc	1.2E+01	nc	7.3E-02	nc	7.3E-01	nc						
2.0E-05	i		2.0E-05	r	0	0.10	6274-8	Sodium fluoroacetate						6.1E+01	nc	6.2E+02	nc	3.7E+00	nc	3.6E+01	nc								
1.0E-03	h		1.0E-03	r	0	0.10	13718-26-8	Sodium metavanadate						4.7E+04	nc	1.0E+05	max	2.2E+04	nc										
6.0E-01	i		6.0E-01	0	0	0	7446-24-6	Strontium, stable						1.8E+01	nc	1.8E+02	nc	1.1E+00	nc	1.1E+01	nc								
3.0E-04	i		3.0E-04	r	0	0.10	57-24-9	Styrene						1.7E+03	sat	1.7E+03	sat	1.1E+03	nc	1.6E+03	nc	4.0E+00	2.0E-01						
2.0E-01	i		2.0E-01	i	1	100-42-5	Styrene						7.8E+01	nc	1.0E+03	nc	3.7E+00	nc	3.6E+01	nc									
1.00E-03	n		1.00E-03	r		80407-9	1,1'-Sulfonylbis (4-chlorobenzene)						1.5E+03	nc	1.5E+04	nc	9.1E+01	nc	9.1E+02	nc									
2.5E-02	i		1.5E+05	h	0	0.03	1746-18-16	2,3,7,8-TCDD (dioxin)						3.9E-06	ca	1.6E-05	ca	4.5E-08	ca	4.5E-07	ca								
7.0E-02	i		7.0E-02	r	0	0.10	34014-18-1	Tebuthuron						4.3E+03	nc	4.3E+04	nc	2.6E+02	nc	2.6E+03	nc								
2.0E-02	h		2.0E-02	r	1.3E-02	r	0	0.10	56025-51-2	Terbucil						1.2E+03	nc	1.2E+04	nc	7.3E+01	nc	7.3E+02	nc						
1.3E-02	i		1.3E-02	i	2.6E-02	i	3.0E-02	r	1	630-20-6	Terbufos						7.9E+02	nc	8.0E+03	nc	4.7E+01	nc	4.7E+02	nc					
2.6E-05	h		2.6E-05	r	0	0.10	13071-79-9	Terbutryn						1.5E+00	nc	1.5E+01	nc	9.1E-02	nc	9.1E-01	nc								
1.0E-03	i		1.0E-03	r	1.0E-03	r	3.0E-04	r	0	0.10	95-94-3	1,2,4,5-Tetrachlorobenzene				6.1E+01	nc	6.2E+02	nc	3.7E+00	nc	3.6E+01	nc						
2.6E-02	i		3.0E-02	i	2.6E-02	i	3.0E-02	r	1	630-20-6	1,1,1,2-Tetrachloroethane				3.2E+00	ca	7.3E+00	ca	2.6E+01	ca	4.3E+01	ca							
2.0E-01	i		6.00E-02	n	2.0E-01	i	6.00E-02	r	1	79345	1,1,2,2-Tetrachloroethane				4.1E-01	ca	9.3E-01	ca	3.3E-02	ca	5.5E-02	ca	3.0E-03	2.0E-04					
5.2E-02	n	1.0E-02	i	1.00E-02	n	1.7E-01	n	1	127-16-4	Tetrachloroethylene (PCE)						1.5E+00	ca*	3.4E+00	ca*	6.7E-01	ca	6.6E-01	ca	1.8E+03	3.0E-03	6.0E-02	3.0E-03		
3.0E-02	i		3.0E-02	r	3.0E-02	r	0	0.10	58-90-2	2,3,4,6-Tetrachlorophenol						1.8E+03	nc	1.8E+04	nc	1.1E+02	nc	1.1E+03	nc						

TOXICITY INFORMATION										PRELIMINARY REMEDIAL GOALS (PRGs)									
SOIL					WATER					INDUSTRIAL SOIL					DIRECT CONTACT EXPOSURE PATHWAYS				
SF ₀ 1/(mg/kg-d)	RfDo (mg/kg-d)	SFI 1/(mg/kg-d)	RfDi (mg/kg-d)	CAS No.	V skin abs. soils	O C	skin abs. soils	CAS No.	Residential Soil (mg/kg)	Industrial Soil (mg/kg)	Ambient Air (ug/m ³)	Tap Water (ug/l)	Migration to Ground Water ^a	DfE-20 (mg/kg)	DfE-1 (mg/kg)	SOIL SCREENING LEVELS			
2.0E+01	h	2.0E-01	r	0	0.10	5216-25-1	p,p,a-Tetrachlorotoluene	2.4E-02	ca	8.6E-02	ca	3.4E-04	ca	3.4E-03	ca				
2.4E-02	h	3.0E-02	i	2.4E-02	r	3.0E-02	Tetrachlorovinylphos	2.0E-01	ca*	7.2E+01	ca	2.8E+00	ca	2.8E+00	ca				
5.0E-04	i	5.0E-04	i	5.0E-04	r	0.10	3689-24-5	Tetraethylidithiopyrophosphate	3.1E-01	nc	3.1E+02	nc	1.8E+01	nc	1.8E+01	nc			
7.6E-03	n	2.1E-01	n	6.8E-03	n	8.6E-02	n	1	100-59-9	Tetrahydrofuran	9.4E-00	ca	2.1E+01	ca	9.9E-01	ca	1.6E+00		
8.0E-05	i	7.4E-02	i	7.4E-02	r	0	0.10	7440-29-0	Thallium and compounds++	5.2E+00	nc	6.7E+01	nc	2.4E+00	nc	2.4E+00	nc		
1.0E-02	i	1.0E-02	i	1.0E-02	r	0	0.10	28249-77-6	Thiobencarb	6.1E-02	nc	6.2E+03	nc	3.7E+01	nc	3.6E+02	nc		
5.0E-02	n	5.0E-02	r	0	0.10	N/A	Thiocyanate	3.1E+03	nc	1.0E+05	max	1.8E+02	nc	1.8E+03	nc				
3.0E-04	h	3.0E-04	r	0	0.10	39188-18-4	Thifanox	1.8E-01	nc	1.8E+02	nc	1.1E+01	nc	1.1E+01	nc				
8.0E-02	i	8.0E-02	r	0	0.10	23584-05-8	Thiophanate-methyl	4.9E-03	nc	4.9E+04	nc	2.9E+02	nc	2.9E+03	nc				
5.0E-03	i	5.0E-03	r	0	0.10	137-28-8	Thiram	3.1E+02	nc	3.1E+03	nc	1.8E+01	nc	1.8E+02	nc				
8.0E-01	h	8.0E-01	i	8.0E-01	i	0	Tin (inorganic, see Tributyltin oxide for organic tin)	4.7E+04	nc	1.0E+05	max	2.2E+04	nc	2.2E+04	nc				
2.0E-01	i	1.1E-01	i	1.1E-01	i	1	Toluene	5.2E+02	nc	5.2E+02	nc	4.0E+02	nc	7.2E+02	nc	1.2E+01			
3.2E-00	h	3.2E-00	r	0	0.10	95-80-7	Toluene-2,4-diamine	1.5E-01	ca	5.4E-01	ca	2.1E-03	ca	2.1E-02	ca				
8.0E-01	h	8.0E-01	h	6.0E-01	r	0	0.10	95-70-5	Toluene-2,5-diamine	3.7E+04	nc	1.0E+05	max	2.2E+03	nc	2.2E+04	nc		
2.0E-01	h	2.0E-01	h	2.0E-01	r	0	0.10	823-40-5	Toluene-2,6-diamine	1.2E+04	nc	1.0E+05	max	7.3E+02	nc	7.3E+03	nc		
2E-01	i	2E-01	r	0	0.10	106-49-0	p-Toluidine	2.6E+00	ca	9.1E+00	ca	3.5E+02	ca	3.5E+01	ca				
1.1E+00	i	1.1E+00	i	1.1E+00	i	0	Toxaphene	4.4E-01	ca	1.6E+00	ca	6.0E-03	ca	6.1E-02	ca	3.1E+01			
7.5E-03	i	7.5E-03	r	7.5E-03	r	0	8001-35-2	Traolmethrin	4.6E+02	nc	4.6E+03	nc	2.7E+01	nc	2.7E+02	nc			
1.3E-02	i	1.3E-02	r	1.3E-02	r	0	0.10	86864-125-6	Triallate	7.9E+02	nc	8.0E+03	nc	4.7E+01	nc	4.7E+02	nc		
1.0E-02	i	1.0E-02	r	1.0E-02	r	0	0.10	82097-50-5	Triasulfuron	6.1E+02	nc	6.2E+03	nc	3.7E+01	nc	3.6E+02	nc		
5.0E-03	i	5.0E-03	r	5.0E-03	r	0	0.10	615-54-3	1,2,4-Tribromobenzene	3.1E+02	nc	3.1E+03	nc	1.8E+01	nc	1.8E+02	nc		
3.0E-04	i	3.0E-04	i	3.0E-04	i	0	0.10	56-35-6	Tributyltin oxide (TBT0)	1.8E+01	nc	1.8E+02	nc	1.1E+01	nc				
3.4E-02	h	3.4E-02	r	0	0.10	634-93-5	2,4,6-Trichloroaniline	1.4E+01	ca	5.1E+01	ca	2.0E+01	ca	2.0E+00	ca				
2.9E-02	h	2.9E-02	r	0	0.10	3683-50-2	2,4,6-Trichloroaniline hydrochloride	1.7E+01	ca	5.9E+01	ca	2.3E+01	ca	2.3E+00	ca				
1.0E-02	i	5.7E-02	h	1	10-82-1	1,2,4-Trichlorobenzene	6.5E+02	nc	3.0E+03	nc	2.1E+02	nc	1.9E+02	nc	5.0E+00	3.0E-01			
2.0E-01	n	6.3E-01	n	6.3E-01	n	1	71-55-6	1,1,1-Trichloroethane	1.2E+03	nc	1.2E+03	nc	2.3E+03	nc	2.0E+00	1.0E-01			
5.7E-02	i	5.6E-02	i	4.0E-03	r	1	79-00-5	1,1,2-Trichloroethane	7.3E-01	ca*	1.6E+00	ca*	1.2E+01	ca	2.0E-02	9.0E-04			
4.00E-01	n	3.00E-04	n	4.00E-01	n	1.00E-02	n	1	79-01-6	Trichloroethylene (TCE)	5.3E-02	ca	1.1E-01	ca	1.7E-02	ca	6.0E-02		
3.0E-01	i	1.0E-04	i	1.1E-02	i	1.0E-04	r	0	0.10	88-08-2	2,4,6-Trichlorophenol	6.1E+00	nc**	3.7E-01	nc**	3.6E+00	2.0E-01		
1.1E-02	i	7.0E-02	r	1.0E-02	r	0	0.10	93-78-5	2,4,5-Trichlorophenoxyacetic Acid	6.1E+02	nc	6.2E+03	nc	3.7E-01	nc	3.6E+02	8.0E-03		
8.0E-03	i	8.0E-03	r	8.0E-03	r	0	0.10	93-72-1	2-(2,4,5-Trichlorophenoxy) propionic acid	4.9E+02	nc	4.9E+03	nc	2.9E+01	nc	2.9E+02			
5.0E-03	i	5.0E-03	r	5.0E-03	r	1	58-77-6	1,1,2-Trichloropropane	1.5E+01	nc	5.1E+01	nc	1.8E+01	nc	3.0E+01				
2.0E+00	n	8.0E-03	i	2.0E-00	r	1.4E-03	n	1	96-18-4	1,2,3-Trichloropropane	5.0E-03	ca	1.1E-02	ca	3.4E+03	ca	5.6E-03		

Key : SFo=Soil Slope Factor oral, inhalation RD₀=Reference Dose oral, inhalation IRIS=IRIS n=NCEA x=Withdrawn or Other EPA Source r=Route extrapolation ca=Cancer PRG nc=Noncancer PRG ca* (where: nc < 10X ca), ca** (where: nc < 10X ca)

***=Non-Standard Method Applied (See Section 2.3 of the "Region 8 PRGs Table User's Guide") **=Soil Saturation (See Section 2.1) DaF=Dilution Attenuation Factor (See Section 2.5) CAS=Chemical Abstract Services

TOXICITY INFORMATION		CONTAMINANT			PRELIMINARY REMEDIAL GOALS (PRGs)						SOIL SCREENING LEVELS			
SFo 1/(mg/kg-d)	RD ₀ (mg/kg-d)	SFI 1/(mg/kg-d)	RD ₁ (mg/kg-d)	V skin O abs. C solis	CAS No.	Residential Soil (mg/kg)	Industrial Soil (mg/kg)	Ambient Air (ug/m ³)	Tap Water (ug/l)	"Migration to Ground Water"	DaF 1 (mg/kg)			
5.0E-03	h		5.0E-03	r	1	98-19-5	1,2,3-Trichloropropene	1.2E+01	nc	1.8E+01	nc	3.0E+01		
3.0E-03	i		3.0E-03	r	0	0.10	58130-06-2	1.8E+02	nc	1.8E+03	nc	1.1E+02		
2.0E-03	r		2.0E-03	i	1	121-44-3	Tridiphane	2.3E+01	nc	8.6E+01	nc	7.3E+00		
7.7E-03	i	7.7E-03	r	7.5E-03	r	0	0.10	1582-09-8	6.3E+01	ca**	2.2E+02	ca*	8.7E+00	
1.400E-04	r		1.400E-04	n	0	0.10	552-30-7	Trifluralin	8.6E+00	nc	8.6E+01	nc	5.1E+00	
5.0E-02	n		1.7E-03	n	1	95-53-6	1,2,4-Trimethylbenzene	5.2E+01	nc	1.7E+02	nc	6.2E+00		
5.0E-02	n		1.7E-03	n	1	108-67-8	1,3,5-Trimethylbenzene	2.1E+01	nc	7.0E+01	nc	6.2E+00		
3.7E-02	h		3.7E-02	r	0	0.10	512-56-1	Trimethyl phosphate	1.3E+01	ca	4.7E+01	ca	1.8E+00	
3.0E-02	i		3.0E-02	r	0	0.10	98-35-4	1,3,5-Trinitrobenzene	1.8E+03	nc	1.8E+04	nc	1.1E+02	
1.0E-02	h		1.0E-02	r	0	0.10	479-45-8	Trinitrophenyl/methylnitramine	6.1E-02	nc	6.2E+03	nc	3.7E+01	
3E-02	i	5.0E-04	3E-02	r	5.0E-04	r	0	0.10	2.46-Trinitrotoluene	1.6E-01	ca**	5.7E+01	ca*	2.2E+00
5.00E-03	n		5.00E-03	r	0	0.10	761-28-6	Triphenylphosphine oxide	3.1E-02	nc	3.1E+03	nc	1.8E+02	
3.2E-03	n	1.1E-01	3.2E-03	r	1.1E-01	r	0.10	115-96-8	Tri(2-chloroethyl) phosphate	1.5E-02	ca*	5.4E+02	ca	2.1E+01
2.00E-04	n			0		7440-61-0	Uranium (chemical toxicity only)	1.6E-01	nc	2.0E+02	nc	7.3E+00		
7.0E-03	h			7440-62-2		Vanadium and compounds	5.5E-02	nc	7.2E+03	nc	2.6E+02	nc	6.0E+03	
1.0E-03	i		1.0E-03	r	0	0.10	1922-77-7	Vernam	6.1E+01	nc	6.2E+02	nc	3.7E+00	
2.5E-02	i		2.5E-02	r	0	0.10	50471-44-6	Vinclozolin	1.5E+03	nc	1.5E+04	nc	9.1E+02	
1.0E-00	h		5.7E-02	i	1	108-55-4	Vinyl acetate	4.3E+02	nc	1.4E+03	nc	2.1E+02	nc	3.0E+02
1.1E-01	r	8.6E-04	1.1E-01	h	8.6E-04	i	1	583-30-2	Vinyl bromide (bromoethene)	1.9E-01	ca*	4.2E+01	ca*	6.1E-02
1.5E+00	i	3.00E-03	i	3.1E-02	i	2.08E-02	i	75-01-4	Vinyl chloride (child/adult)++	7.9E-02	ca	1.1E-01	ca	2.0E-02
7.5E-01	i	3.00E-03	i	1.6E-02	i	2.08E-02	i	75-01-4	Vinyl chloride (adult)	7.5E-01	ca			1.0E-04
3.0E-04	i		3.0E-04	r	0	0.10	81-81-2	Warfarin	1.8E+01	nc	1.8E+02	nc	1.1E+01	
7.0E-01	i		2.9E-02	i	1	0.10	1330-20-7	Xylenes	2.7E+02	nc	4.2E+02	nc	2.1E+02	
3.0E-01	i			0		7440-98-6	Zinc	2.3E+04	nc	1.0E+05	max	1.1E+04		
3.0E-04	i			0		1314-84-7	Zinc phosphide	2.3E+01	nc	3.1E+02	nc	1.1E+01		
5.0E-02	i		5.0E-02	r	0	0.10	12122-87-7	Zineb	3.1E+03	nc	3.1E+04	nc	1.8E+03	

